

Proteins detected under conventional growth conditions (BHI supplemented with 5% FCS) in *B. hyodysenteriae* P7455

Accession	Protein	MW [kDa]	pI	Scores	Peptides		SC
Bhya7455_0047	ModA, ABC-type molybdate transport system, periplasmic component	28.5	4.7	226.2	4	4	28.9
Bhya7455_0055	ABC-type oligopeptide transport system, periplasmic component	60.7	4.7	1803.0	31	27	60.7
Bhya7455_0062	30S ribosomal protein S2	29.6	5.0	317.5	7	6	45.9
Bhya7455_0063	elongation factor Ts	31.2	5.2	320.7	8	7	33.1
Bhya7455_0064	TPR domain-containing protein	52.5	5.1	891.3	17	16	40.6
Bhya7455_0088	chemotaxis response regulator CheY	13.5	7.6	240.6	5	5	51.6
Bhya7455_0090	putative methyl-accepting chemotaxis protein	74.0	4.4	110.3	4	4	7.2
Bhya7455_0100	ABC-type uncharacterized transport system	61.4	9.4	292.8	6	4	21.4
Bhya7455_0115	putative dynein heavy chain	42.4	4.5	968.9	17	14	45.1
Bhya7455_0127	aminodeoxychorismate lyase	38.1	9.2	169.6	4	2	20.9
Bhya7455_0133	methyl-accepting chemotaxis protein McpB	75.7	4.9	282.9	5	5	12.9
Bhya7455_0137	hypothetical protein	20.9	4.8	456.3	8	8	47.2
Bhya7455_0170	ankyrin repeat-containing protein	71.0	4.6	242.2	6	6	12.6
Bhya7455_0171	solute binding protein-like protein	97.5	4.8	828.1	13	13	20.7
Bhya7455_0174	phosphate ABC transporter, phosphate-binding protein	27.5	4.3	1018.7	14	14	58.6
Bhya7455_0180	ABC-type uncharacterized transport system, periplasmic component	32.9	4.4	906.7	15	15	76.3
Bhya7455_0181	hypothetical protein	19.8	5.8	267.4	5	5	37.1
Bhya7455_0182	hypothetical protein	18.6	4.7	392.0	6	6	49.1
Bhya7455_0194	Na ⁺ -transporting methylmalonyl-CoA/oxaloacetate decarboxylase, beta subunit	48.2	9.9	202.1	3	3	10.0
Bhya7455_0195	biotin/lipoyl attachment domain-containing protein	64.2	5.7	1777.4	33	31	64.5
Bhya7455_0207	peptidase	31.7	6.0	169.4	4	4	20.0
Bhya7455_0232	hypothetical protein	51.4	4.8	1293.4	22	20	55.3

Bhya7455_0250	ABC-type nitrate/sulfonate/bicarbonate transport system	37.2	4.5	888.0	15	13	8	62.0
Bhya7455_0260	hypothetical protein	19.7	5.5	218.9	3	3		23.8
Bhya7455_0271	hypothetical protein	24.5	9.2	198.2	3	3	3	16.7
Bhya7455_0294	hypothetical protein	57.0	4.1	193.3	5	5		9.5
Bhya7455_0295	hypothetical protein	38.2	4.1	415.2	7	7	5	28.3
Bhya7455_0299	pts system, N-acetylglucosamine-specific iibc component	50.6	8.7	545.7	11	10	7	27.6
Bhya7455_0301	response regulatory protein (atoC)	51.1	5.5	103.1	5	3		16.9
Bhya7455_0311	hypothetical protein	73.8	5.1	726.9	13	11	4	30.1
Bhya7455_0335	hypothetical protein	18.8	5.1	128.4	2	2		21.7
Bhya7455_0336	putative positive regulator of sigma E, RseC/MucC	15.8	9.3	324.0	8	8	8	45.7
Bhya7455_0338	TPR domain-containing protein	53.6	6.0	1072.1	20	20	4	43.7
Bhya7455_0340	hypothetical protein	40.0	5.6	327.8	6	4		23.4
Bhya7455_0341	hypothetical protein	38.1	4.8	1321.9	27	23	5	55.3
Bhya7455_0347	putative chaperone protein DnaJ	11.2	10.0	145.6	2	2	2	27.1
Bhya7455_0367	galactose/glucose-binding protein	38.2	4.7	4876.7	86	73	0	75.7
Bhya7455_0368	galactose/methyl galactoside transporter ATP-binding protein	56.1	9.1	789.1	15	10		35.7
Bhya7455_0369	beta-methylgalactoside transporter inner membrane component	36.0	0.0	135.0	3	2	2	5.0
Bhya7455_0382	OppA, ABC-type oligopeptide transport system, periplasmic component	60.8	4.9	1207.1	20	17	2	43.3
Bhya7455_0387	binding-protein-dependent transport system, membrane component	35.5	9.8	177.6	3	3	2	12.2
Bhya7455_0404	OppA, ABC-type oligopeptide transport system, periplasmic component	59.4	4.6	997.3	20	16	7	45.0
Bhya7455_0408	hypothetical protein	41.0	5.1	296.3	7	5	3	36.8
Bhya7455_0418	50S ribosomal protein L25/general stress protein Ctc	21.9	5.6	464.5	9	9	7	57.7
Bhya7455_0424	DH oxidase	50.1	6.1	866.4	19	13	1	54.2
Bhya7455_0446	periplasmic ATP/GTP-binding protein	32.7	4.3	252.9	5	5	5	22.0
Bhya7455_0448	hypothetical protein	20.3	4.4	345.6	7	6	4	30.6

Bhya7455_0459	hypothetical protein	30.5	6.0	419.0	6	6	5	31.6
Bhya7455_0460	hypothetical protein	30.1	9.7	212.1	5	52		21.2
Bhya7455_0473	ankyrin repeat-containing protein	15.2	5.4	336.0	6	6	4	52.6
Bhya7455_0477	hypothetical protein	68.1	5.7	105.1	4	3	3	6.3
Bhya7455_0483	metal dependent amidohydrolase	63.9	5.0	665.6	12	10	8	27.7
Bhya7455_0486	phosphotransferase system mannitol/fructose-specific IIA domain (Ntr-type)	31.2	5.4	509.5	8	8	5	39.7
Bhya7455_0487	hypothetical protein	15.2	0.0	413.6	5	5	5	43.4
Bhya7455_0517	TRAP transporter solute receptor, TAXI family	34.4	4.5	1035.0	19	17	4	54.4
Bhya7455_0523	carbon starvation protein CstA	58.6	9.7	428.5	9	6	6	16.9
Bhya7455_0537	putative UshA protein; putative 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	57.2	4.8	541.4	12	9	6	27.7
Bhya7455_0538	spermidine/putrescine transport ATP-binding protein PotA	45.3	4.6	548.0	8	8	4	35.8
Bhya7455_0550	hypothetical protein	27.5	9.6	128.0	4	3		18.3
Bhya7455_0552	hypothetical protein	38.4	8.8	102.9	3	3		13.5
Bhya7455_0574	putative flagellar filament outer layer protein FlaA	27.6	4.6	105.7	4	3		34.0
Bhya7455_0585	50S ribosomal protein L7/L12	13.3	4.8	244.5	4	4		60.9
Bhya7455_0590	putative preprotein translocase subunit SecE	12.1	10.4	120.3	4	4	3	14.2
Bhya7455_0612	hypothetical protein	24.7	4.8	267.7	5	4	4	28.9
Bhya7455_0615	hypothetical protein	18.9	4.8	113.9	2	2	2	18.4
Bhya7455_0619	invasin; Opacity protein-like surface antigens	25.0	9.3	113.5	3	2		20.5
Bhya7455_0623	hypothetical protein	24.7	5.3	153.5	3	3		33.2
Bhya7455_0629	PilZ domain containing protein	28.9	5.1	143.2	3	3		17.1
Bhya7455_0678	ThiJ/Pfpl domain-containing protein	20.0	4.8	107.8	3	3		44.0
Bhya7455_0691	outer membrane protein	100.3	6.7	1140.9	18	18	5	24.4
Bhya7455_0711	membrane-bound proton-translocating pyrophosphatase	79.8	5.9	303.0	5	4		9.4
Bhya7455_0730	chemotaxis protein CheY	15.6	9.2	105.6	3	2	2	21.6
Bhya7455_0741	isoleucyl-tRNA synthetase	106.0	5.8	152.4	4	3		6.4
Bhya7455_0756	methyl-accepting chemotaxis-like domains (chemotaxis sensory transducer)	62.4	4.5	135.8	3	3		11.8

Bhya7455_0765	GltP, Na ⁺ /H ⁺ -dicarboxylate symporter	40.2	9.2	189.6	3	3	10.3
Bhya7455_0772	hypothetical protein	58.9	8.9	169.0	3	3	14.7
Bhya7455_0792	alkaline phosphatase III	57.7	4.8	1380.5	20	18	7 60.0
Bhya7455_0816	triosephosphate isomerase	27.6	5.7	161.2	2	2	19.8
Bhya7455_0825	hypothetical protein	51.2	8.8	593.1	11	11	9 30.8
Bhya7455_0856	UshA, 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	68.3	4.7	386.7	9	8	7 21.9
Bhya7455_0865	hypothetical protein	27.8	5.1	107.9	2	2	9.6
Bhya7455_0888	-	31.9	7.6	122.0	4	3	13.3
Bhya7455_0934	hypothetical protein	47.8	5.9	75.8	3	3	7.9
Bhya7455_0941	peptidase	47.1	5.3	115.5	3	3	3 7.1
Bhya7455_0944	hypothetical protein	35.0	4.9	359.5	6	3	28.6
Bhya7455_0946	non-heme iron-containing ferritin	20.9	4.9	190.4	4	3	2 25.0
Bhya7455_0958	hypothetical protein	18.0	4.9	143.4	4	4	38.7
Bhya7455_0964	purine-binding chemotaxis protein	17.9	4.3	200.0	3	3	31.4
Bhya7455_0980	hypothetical protein	33.4	5.0	185.8	4	4	3 22.1
Bhya7455_1004	extracellular solute-binding protein, family 5	61.7	4.8	218.8	4	4	4 9.2
Bhya7455_1009	ABC transporter, transmembrane region	73.2	9.3	163.2	3	3	10.6
Bhya7455_1020	chaperonin GroEL	58.2	4.9	1015.5	18	15	9 53.2
Bhya7455_1029	hypothetical protein	22.2	5.2	196.8	3	2	2 15.4
Bhya7455_1042	putative Na ⁺ /phosphate symporter	61.9	6.3	305.6	7	6	3 20.0
Bhya7455_1049	methyl-accepting chemotaxis protein McpB	68.3	4.7	158.2	5	4	3 8.0
Bhya7455_1071	3-hydroxybutyryl-CoA dehydratase	29.9	8.8	409.6	8	3	8 36.8
Bhya7455_1072	3-hydroxybutyryl-CoA dehydratase	27.7	5.4	676.4	10	10	8 48.4
Bhya7455_1073	acetyl-CoA acetyltransferase	40.9	8.8	356.1	9	8	5 35.2
Bhya7455_1085	PTS system, fructose subfamily, IIC subunit	17.3	7.7	54.3	3	3	18.2
Bhya7455_1098	acetyltransferase, GT family	20.9	5.2	192.4	7	5	5.7
Bhya7455_1150	peroxiredoxin family, thiol peroxidase	17.9	5.2	730.2	13	12	9 89.1
Bhya7455_1163	extracellular solute-binding protein, family 5	51.8	4.9	108.7	3	3	10.0

Bhya7455_1164	extracellular solute-binding protein, family 5	60.8	5.2	678.3	16	13	1	38.5
Bhya7455_1167	putative methyl-accepting chemotaxis protein B	75.7	4.6	226.3	6	4	3	10.2
Bhya7455_1180	hypothetical protein	38.1	10.6	292.6	5	4	4	12.5
Bhya7455_1188	ankyrin repeat-containing protein	62.1	4.5	63.5	2	2	6.6	
Bhya7455_1206	Heat shock protein	17.2	4.1	560.1	8	7	5	37.4
Bhya7455_1239	Signal recognition particle GTPase	35.4	9.1	1172.8	16	16	1	44.0
Bhya7455_1247	putative cytidylate kinase	23.4	6.5	101.4	3	2	2	19.3
Bhya7455_1252	NifS, Cysteine sulfinase/cysteine desulfurase-like enzyme	42.9	5.9	76.0	3	3		9.3
Bhya7455_1272	hypothetical protein	26.8	4.9	1260.0	20	19	1	58.1
Bhya7455_1290	ankyrin repeat-containing protein	61.1	4.3	1743.9	27	26	2	55.7
Bhya7455_1308	integral membrane transport protein	46.1	5.4	209.0	5	5	5	15.1
Bhya7455_1328	electron transport complex protein	46.8	8.6	1700.5	28	27	2	66.0
Bhya7455_1329	putative electron transport complex	39.4	9.9	83.6	3	3	3	9.6
Bhya7455_1330	putative electron transport complex	19.9	4.5	805.7	15	14	9	62.3
Bhya7455_1338	phosphoglycerate kinase	44.1	5.8	137.4	3	3		13.6
Bhya7455_1339	glyceraldehyde-3-phosphate dehydrogenase	38.1	7.8	758.8	13	13	8	49.6
Bhya7455_1340	glutamyl-tRNA(Gln) amidotransferase, B subunit	54.5	6.0	89.6	4	4	4	13.5
Bhya7455_1359	galactose/glucose-binding protein	37.8	4.4	1049.2	18	12	1	68.1
Bhya7455_1360	galactose/glucose-binding protein	38.7	9.4	107.5	5	4	3	10.7
Bhya7455_1361	3-dehydroquinate synthetase	39.9	6.1	84.8	4	4		11.7
Bhya7455_1371	extracellular solute-binding protein, family 3	30.1	5.3	1304.1	19	18	1	63.9
Bhya7455_1375	periplasmic-iron-binding protein BitB	38.2	4.7	579.3	11	8	5	45.7
Bhya7455_1376	periplasmic-iron-binding protein BitB	39.0	4.6	261.6	4	4	2	27.4
Bhya7455_1412	hypothetical protein	63.4	7.5	192.4	7	6	3	10.1
Bhya7455_1415	thiol-disulfide interchange protein DsbD-like protein	31.2	4.6	182.0	4	4		18.1
Bhya7455_1416	thiol-disulfide interchange protein DsbD-like protein	31.6	5.4	384.3	8	8	3	34.9

Bhya7455_1427	hypothetical protein	14.9	4.5	317.0	4	4	4	22.9
Bhya7455_1437	hypothetical protein	27.5	5.0	293.8	5	3	5	25.4
Bhya7455_1443	hypothetical protein	60.7	5.9	1028.9	21	12	6	43.9
Bhya7455_1461	Predicted membrane protein	23.2	10.6	89.8	2	2	2	11.6
Bhya7455_1470	hypothetical protein	19.3	5.2	680.5	14	13	0	68.4
Bhya7455_1479	BmpB, outer membrane lipoprotein	29.7	4.3	772.8	12	12	1	36.9
Bhya7455_1483	transcriptional regulator	32.3	5.8	68.3	4	4		14.7
Bhya7455_1502	acyl-CoA synthetase	62.2	6.6	272.2	6	5	4	18.7
Bhya7455_1505	dinB family protein	32.5	10.0	48.1	3	3		10.8
Bhya7455_1510	TPR domain-containing protein	20.2	4.9	140.5	3	2		26.0
Bhya7455_1522	Phosphopyruvate hydratase	47.0	4.8	929.2	15	13	8	49.7
Bhya7455_1535	PTS system, Ila component	16.3	4.2	53.7	3	3		14.8
Bhya7455_1536	amino acid-binding protein	28.6	4.9	237.0	4	4		17.3
Bhya7455_1543	electron transfer flavoprotein beta subunit	28.6	5.8	439.8	8	8	4	56.3
Bhya7455_1544	acyl-CoA dehydrogenase	40.0	6.1	256.8	9	6	3	24.0
B.hyoa7455_1547	V-type ATP synthase subunit A	65.1	5.0	296.2	6	5	2	20.1
B.hyoa7455_1548	V-type ATP synthase subunit B	48.4	4.9	102.2	2	2	2	7.7
B.hyoa7455_1550	putative V-type ATP synthase subunit I	68.7	6.1	516.4	11	8	8	19.1
B.hyoa7455_1560	hypothetical protein	43.1	5.1	221.3	5	5	3	19.4
Bhya7455_1566	hypothetical protein	39.6	5.6	57.6	2	2	2	10.3
Bhya7455_1583	hypothetical protein	35.6	4.8	1974.9	36	31	9	84.5
Bhya7455_1593	TPR domain-containing protein	77.5	5.2	218.1	4	3		10.9
Bhya7455_1603	OmpA family protein	25.2	9.6	106.8	2	2		9.5
Bhya7455_1604	hypothetical protein	26.2	9.3	120.4	3	3		20.3
Bhya7455_1605	hypothetical protein	33.6	9.0	127.6	3	3		12.0
Bhya7455_1606	hypothetical protein	17.5	4.4	136.0	4	4		42.4

Bhya7455_1610	elongation factor G	75.3	5.1	315.2	8	7	6	20.9
Bhya7455_1611	elongation factor Tu	44.4	5.8	1424.2	24	23	7	58.8
Bhya7455_1626	30S ribosomal protein S8	14.9	9.7	262.7	5	5		45.9
Bhya7455_1627	50S ribosomal protein L6	21.0	10.0	189.6	4	4		34.8
B.hyoa7455_1628	50S ribosomal protein L18	13.2	10.6	91.8	2	2		16.9
Bhya7455_1632	preprotein translocase subunit SecY	49.2	10.2	85.4	3	3		15.7
Bhya7455_1642	putative lipid A disaccharide synthase; LpxB	42.5	9.4	66.6	3	3		11.7
Bhya7455_1662	iron-containing alcohol dehydrogenase	42.0	5.5	96.4	4	4	4	19.4
Bhya7455_1674	extracellular solute-binding protein, family 5	59.4	4.6	1447.7	27	23	7	54.7
Bhya7455_1675	hypothetical protein	11.8	6.1	312.0	7	7	5	68.6
Bhya7455_1684	TPR domain-containing protein	68.3	5.1	209.8	9	5	4	9.6
Bhya7455_1686	hypothetical protein	15.5	9.5	163.5	2	2	2	18.6
Bhya7455_1693	OmpA family protein	23.9	4.6	479.7	8	8	6	59.6
Bhya7455_1708	SoxR-reducing system protein RxE	23.4	10.0	152.4	2	2	2	5.0
Bhya7455_1709	RnfA, Predicted DH:ubiquinone oxidoreductase, subunit RnfA	21.1	9.4	128.1	2	2	2	5.7
Bhya7455_1710	ferredoxin	29.6	9.4	465.4	10	9	4	45.7
Bhya7455_1717	MiaB-like tRNA modifying enzyme	48.1	9.3	113.6	4	4		5.3
Bhya7455_1718	Cell division protein FtsZ	76.8	4.7	87.8	3	3		5.1
Bhya7455_1737	aspartate aminotransferase	45.8	5.8	266.0	5	4		19.1
Bhya7455_1743	hypothetical protein	65.4	4.2	221.0	4	4		13.0
Bhya7455_1745	hypothetical protein	23.0	4.7	101.0	2	2		11.1
Bhya7455_1753	OmpR	26.2	4.9	123.2	3	3		22.4
Bhya7455_1770	hypothetical protein	59.1	4.8	514.8	9	9	9	20.4
Bhya7455_1771	hypothetical protein	58.0	4.9	747.2	12	11	0	24.6
Bhya7455_1772	hypothetical protein	30.7	4.5	1174.1	20	18	3	49.3
Bhya7455_1780	ABC transporter substrate binding protein	35.1	4.6	1122.4	17	14	1	55.3

Bhyoa7455_178								
3	variable surface protein A	38.1	4.5	684.2	10	9	7	37.9
Bhyoa7455_1785	periplasmic solute binding protein	32.3	4.6	128.4	3	3		15.3
Bhyoa7455_1808	hypothetical protein	27.9	8.7	164.3	4	3		19.4
Bhyoa7455_1821	pyruvate oxireductase	38.0	9.4	653.1	12	12	8	42.3
Bhyoa7455_1822	pyruvate ferredoxin oxireductase	82.9	6.2	1083.2	23	22	9	44.0
Bhyoa7455_1832	hypothetical protein	23.5	5.4	344.8	5	5	3	36.6
Bhyoa7455_1866	hypothetical protein	88.0	5.1	154.1	5	3		6.1
Bhyoa7455_1884	Flagellar Motor Protein	27.8	4.8	318.5	5	4	3	21.3
							4	
Bhyoa7455_1893	extracellular solute-binding protein, family 5	61.8	4.9	3016.1	58	54	5	67.9
Bhyoa7455_1913	hypothetical protein	28.1	4.6	450.9	9	9	4	51.6
Bhyoa7455_1918	periplasmic flagellar filament protein FlaB3	30.1	5.2	78.4	3	3		15.1
Bhyoa7455_1920	Zn dependant metalloprotease	25.8	9.1	228.0	4	4	2	20.3
Bhyoa7455_1930	hypothetical protein	39.4	4.9	199.9	6	5	2	21.0
Bhyoa7455_1946	hypothetical protein	28.6	4.9	357.0	6	6	4	31.2
Bhyoa7455_1947	hypothetical protein	27.2	9.2	443.9	8	7	7	19.8
Bhyoa7455_1957	hypothetical protein	40.4	5.7	255.4	5	4		20.5
Bhyoa7455_1969	hypothetical protein	18.8	5.2	392.1	7	7	6	48.5
Bhyoa7455_1981	hypothetical protein	15.3	4.3	248.9	3	3	3	38.6
Bhyoa7455_2024	hypothetical protein	14.8	4.8	282.5	6	6		59.1
Bhyoa7455_2025	hypothetical protein	18.8	4.5	216.9	3	3	2	24.2
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Bhyoa7455_2046	hypothetical protein	39.9	4.4	1002.0	15	15	2	46.2
Bhyoa7455_2064	3-oxoacyl-ACP (acyl carrier protein) synthase II	44.5	6.1	161.4	4	4	4	17.5
Bhyoa7455_207								
3	hypothetical protein	107.0	6.4	342.2	8	7		10.8
Bhyoa7455_207	AMP-activated protein kinase (AMPK) beta subunit							
8	glycogen binding domain (GBD)	29.4	4.8	245.6	5	5		31.7
Bhyoa7455_2088	methyl-accepting chemotaxis protein McpB	61.3	4.8	147.6	3	2		6.9
Bhyoa7455_2091	Phosphoribosylamidoimidazole-succinocarboxamide synthase	27.3	6.0	109.6	2	2		13.4
Bhyoa7455_2097	alpha-amylase 1 (1,4-alpha-D-glucan glucanohydrolase)	82.5	5.4	170.5	8	6	4	13.6
Bhyoa7455_2102	hypothetical protein	25.3	4.9	138.8	3	2		23.5

Bhya7455_2111	ankyrin repeat-containing protein	42.6	4.6	294.8	7	6	32.5
Bhya7455_2168	Rieske (2Fe-2S) domain protein	38.1	9.7	434.9	15	14	10.2
Bhya7455_2176	basic membrane lipoprotein	38.6	4.6	745.3	12	11	51.4
Bhya7455_217	basic membrane lipoprotein	36.9	4.6	1301.6	17	16	55.6
Bhya7455_2185	hypothetical protein	10.0	5.4	287.5	5	5	47.7
Bhya7455_2192	extracellular solute-binding protein, family 3	29.2	4.5	2422.5	32	31	77.4
Bhya7455_2198	hypothetical protein	18.4	9.3	536.5	10	10	58.3
Bhya7455_2210	ankyrin repeat-containing protein	40.4	4.3	518.2	10	10	42.1
Bhya7455_2214	lipoprotein involved with copper homeostasis and adhesion	14.5	4.0	279.6	4	4	26.2
Bhya7455_2217	bifunctional methionine sulfoxide reductase	23.3	6.6	120.3	3	3	22.8
Bhya7455_222	hypothetical protein	28.2	5.5	293.6	6	5	22.8
Bhya7455_2234	phosphoenolpyruvate carboxykinase (GTP)	66.6	5.8	617.7	11	9	28.8
Bhya7455_2239	oligopeptide ABC transporter periplasmic subunit	61.3	5.9	812.3	16	13	35.7
Bhya7455_2247	hypothetical protein	25.1	4.6	451.5	10	7	43.0
Bhya7455_2257	hypothetical protein	23.3	6.4	531.4	8	8	44.4
Bhya7455_2258	hypothetical protein	21.1	6.1	357.7	7	7	44.8
Bhya7455_228	hypothetical protein	15.4	8.9	109.3	4	4	30.5
Bhya7455_2320	extracellular solute-binding protein, family 3	30.4	4.7	1285.6	18	17	52.7
Bhya7455_2321	extracellular solute-binding protein, family 3	31.1	4.8	848.5	13	12	56.0
Bhya7455_2322	Leucine-rich repeat containing protein	32.6	9.2	65.5	3	3	9.0
Bhya7455_2325	endoribonuclease	13.9	5.3	139.6	2	2	22.0
Bhya7455_2337	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase	39.3	7.7	102.8	3	3	7.0
Bhya7455_2344	hypothetical protein	60.5	7.8	209.0	5	4	10.6
Bhya7455_2347	argininosuccinate lyase	45.6	5.6	230.8	6	6	26.6
Bhya7455_236	variable surface protein - VspE	40.5	6.5	1301.1	16	15	43.2
Bhya7455_2368	SpolI, Anti-anti-sigma regulatory factor	12.2	5.2	181.9	2	2	26.4
Bhya7455_2371	putative methyl-accepting chemotaxis protein B	67.4	4.9	208.4	5	4	14.3

Bhya7455_2378	methyl-accepting chemotaxis protein McpA	67.5	4.6	331.0	7	8	7	15.1
Bhya7455_2380	hypothetical protein	47.7	4.2	105.6	2	2		5.1
Bhya7455_2381	extracellular solute-binding protein, family 5	62.3	5.0	1079.6	18	17	9	50.7
Bhya7455_2382	extracellular solute-binding protein, family 5	59.4	4.8	1552.3	23	20	9	53.2
Bhya7455_2383	extracellular solute-binding protein, family 5	60.3	4.7	710.8	14	12	7	39.5
Bhya7455_2404	fused N-acetyl glucosamine specific PTS enzyme: IIC, IIB , and IIA components	77.4	6.1	478.0	9	8	4	16.8
Bhya7455_2408	hypothetical protein	55.9	9.2	556.1	11	7	6	29.9
Bhya7455_2411	rubrerythrin	20.6	5.9	390.0	6	6	4	59.6
Bhya7455_2412	superoxide dismutase	22.1	6.3	338.6	6	6	3	52.6
Bhya7455_2429	hypothetical protein	143.4	6.7	186.3	4	4		5.1
Bhya7455_2452	extracellular solute-binding protein, family 5	59.8	4.6	1771.9	34	28	9	57.0
Bhya7455_2454	hypothetical protein	37.9	4.6	539.4	12	9	3	37.8
Bhya7455_2455	TPR domain-containing protein	26.2	5.5	140.2	3	3		13.9
Bhya7455_2465	putative preprotein translocase subunit	15.8	9.5	681.9	10	10	8	42.7
Bhya7455_2466	preprotein translocase subunit SecD	55.1	5.0	730.2	13	12	1	28.4
Bhya7455_2467	preprotein translocase	34.3	8.8	278.4	4	3	3	13.7
Bhya7455_2477	putative flagellar basal body-associated protein	20.2	4.6	1028.9	15	15	4	60.2
Bhya7455_2517	hypothetical protein	50.5	5.2	263.8	6	4		25.8
Bhya7455_2523	hypothetical protein	37.5	5.8	66.5	3	3		5.4
Bhya7455_2532	methyl-accepting chemotaxis protein McpB	66.0	4.6	178.0	5	3		8.5
Bhya7455_2544	hypothetical protein	88.4	4.6	220.6	6	5	3	15.6
Bhya7455_2553	ABC-type oligopeptide transport system, periplasmic component	59.8	5.1	1696.0	31	26	1	61.6
Bhya7455_2554	ABC-type oligopeptide transport system, periplasmic component	61.2	5.5	168.1	4	2	2	11.8
Bhya7455_2567	periplasmic-iron-binding protein BitB	15.4	4.7	178.3	2	2		44.6
Bhya7455_2610	hypothetical protein	22.0	9.1	251.4	4	4		25.9
Bhya7455_2618	basic membrane lipoprotein	16.9	4.2	305.1	6	5	4	52.6
Bhya7455_263	putative inversin protein alternative isoform	64.3	4.2	339.7	6	4	4	17.5

4								
Bhya7455_2645	sodium:alanine symporter family protein	50.0	9.6	154.2	3	3	3	8.8
Bhya7455_2653	hypothetical protein	45.7	4.4	538.4	13	11	5	29.0
Bhya7455_2657	ankyrin repeat-containing protein	27.0	4.0	214.6	4	4	3	21.2
Bhya7455_2665	basic membrane lipoprotein	23.2	7.5	404.5	7	6	3	54.4
Bhya7455_2671	periplasmic-iron-binding protein BitA	14.8	5.1	133.8	4	3		38.3
Bhya7455_2678	variable surface protein - VspA	22.3	6.2	91.7	2	2	2	9.0
Bhya7455_2687	hypothetical protein	15.2	5.6	218.4	4	2		35.6
Bhya7455_2691	periplasmic-iron-binding protein BitC	12.8	7.1	311.0	6	5	4	35.7
Bhya7455_2694	variable surface protein - VspF	10.9	7.8	826.4	11	9	9	55.8
	Proteins in total predicted	271						
	Lipoproteins predicted by SpLiP	74						
	beta-barrel proteins predicted by BOMP	32						

Proteins detected under iron-restricted conditions in *B. hyodysenteriae* P8544

Accession	Protein	MW [kDa]	pI	Scores	Peptides			SC
Bhyov8544_0054	PilZ domain containing protein	28.9	5.1	122.4	3	2		17.1
Bhyov8544_0070	hypothetical protein	24.7	4.8	228.0	5	4	3	28.9
Bhyov8544_0095	rplJ 50S ribosomal protein L10	19.2	5.9	197.7	3	3	2	16.4
Bhyov8544_0107	flaA putative flagellar filament outer layer protein FlaA	27.6	4.6	354.9	7	5		37.3
Bhyov8544_0108	flaA flagellar filament outer layer protein FlaA	24.7	4.6	238.4	6	5	5	20.4
Bhyov8544_0129	hypothetical protein	38.4	8.8	121.8	4	2		13.5
Bhyov8544_0132	hypothetical protein	29.3	8.6	76.3	2	2		7.0
Bhyov8544_0143	potD spermidine/putrescine transport ATP-binding protein PotA	45.3	4.6	915.1	19	18	10	37.0

Bhyov8544_0144	ushA putative UshA protein; putative 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	57.2	4.8	351.2	9	8	4	25.8
Bhyov8544_0150	vspH variable surface protein VspH	47.0	4.9	246.7	5	3		20.9
Bhyov8544_0158	cstA carbon starvation protein CstA	58.6	9.7	164.8	3	2	2	8.1
Bhyov8544_0164	TRAP transporter solute receptor, TAXI family	34.4	4.5	972.0	16	15	15	43.7
Bhyov8544_0191	hypothetical protein	15.1	9.3	353.2	6	5	2	51.5
Bhyov8544_0192	ptsN phosphotransferase system mannitol/fructose-specific IIA domain	31.2	5.4	246.1	5	5	3	23.2
Bhyov8544_0195	metal dependent amidohydrolase	63.9	5.0	352.3	7	4	4	17.3
Bhyov8544_0205	arp ankyrin repeat-containing protein	15.2	5.4	440.4	8	8	6	60.6
Bhyov8544_0209	hypothetical protein	24.2	4.7	89.3	3	2	2	19.1
Bhyov8544_0219	hypothetical protein	30.5	6.3	395.1	7	5	4	40.5
Bhyov8544_0230	hypothetical protein	20.3	4.4	458.0	10	9	4	34.1
Bhyov8544_0232	periplasmic ATP/GTP-binding protein	32.7	4.3	297.1	5	5	5	31.3
Bhyov8544_0254	nox DH oxidase	50.1	6.1	1093.1	23	17	12	48.9
Bhyov8544_0260	rplY 50S ribosomal protein L25/general stress protein Ctc	21.9	5.6	142.3	4	2	2	29.1
Bhyov8544_0270	hypothetical protein	41.0	5.1	120.3	4	3	2	15.7
Bhyov8544_0293	binding-protein-dependent transport system, membrane component	35.5	9.8	201.0	4	4	3	15.0
Bhyov8544_0298	oppA OppA, ABC-type oligopeptide transport system, periplasmic component	60.8	4.9	958.1	19	17	17	43.3
Bhyov8544_0305	putative dynein heavy chain	42.3	4.5	686.7	13	13	11	43.8
Bhyov8544_0315	aminodeoxychorismate lyase	38.1	9.2	303.9	7	6	4	30.1
Bhyov8544_0317	PSP1	37.6	5.0	53.9	3	3	2	5.2
Bhyov8544_0325	hypothetical protein	20.9	4.8	280.9	6	4	4	36.4
Bhyov8544_0354	arp ankyrin repeat-containing protein	71.0	4.6	629.9	12	6	5	23.4
Bhyov8544_0355	solute binding protein-like protein	97.5	4.8	986.5	19	18	19	25.9
Bhyov8544_0364	ABC-type uncharacterized transport system, periplasmic component	32.9	4.4	891.4	16	15		67.3
Bhyov8544_0366	hypothetical protein	18.5	4.7	170.4	3	2		20.0
Bhyov8544_0378	Na ⁺ -transporting methylmalonyl-CoA/oxaloacetate decarboxylase, beta subunit	48.2	9.9	154.4	4	3	3	12.0

Bhyov8544_0379	biotin/lipoyl attachment domain-containing protein	64.2	5.7	1765.1	34	32	28	64.2
Bhyov8544_0380	hypothetical protein	7.0	9.9	70.8	3	3	2	33.3
Bhyov8544_0417	hypothetical protein	51.3	4.8	150.5	2	2	2	5.2
Bhyov8544_0435	tauA ABC-type nitrate/sulfonate/bicarbonate transport system	34.1	4.5	746.3	14	14	11	58.3
Bhyov8544_0445	hypothetical protein	19.7	5.5	145.1	2	2		14.0
Bhyov8544_0456	hypothetical protein	24.5	9.2	190.7	4	2		18.0
Bhyov8544_0479	hypothetical protein	56.9	4.1	171.8	5	4	3	11.1
Bhyov8544_0480	hypothetical protein	37.0	4.1	341.9	6	5	5	17.4
Bhyov8544_0484	nagE pts system, N-acetylglucosamine-specific iibc component	50.6	8.7	466.6	10	7	6	22.4
Bhyov8544_0496	hypothetical protein	73.8	5.2	666.6	15	11	10	27.7
Bhyov8544_0521	putative positive regulator of sigma E, RseC/MucC	15.8	9.3	294.1	7	5	4	45.7
Bhyov8544_0523	TPR domain-containing protein	53.6	6.0	1144.7	21	17	17	45.2
Bhyov8544_0525	hypothetical protein	40.0	5.6	123.3	3	3	2	13.7
Bhyov8544_0526	hypothetical protein	38.1	4.8	973.6	22	16	16	51.7
Bhyov8544_0531	dnaJ chaperone protein dnaJ	40.9	9.6	101.1	3	3		11.4
Bhyov8544_0562	fadD acyl-CoA synthetase	62.2	6.6	539.4	11	10	6	29.6
Bhyov8544_0570	TPR domain-containing protein	20.2	4.7	217.3	5	4	4	31.5
Bhyov8544_0584	eno Phosphopyruvate hydratase	47.0	4.8	515.4	11	10	5	35.3
Bhyov8544_0598	amino acid-binding protein	28.6	4.9	614.7	10	9	7	40.6
Bhyov8544_0605	etfB electron transfer flavoprotein beta subunit	28.6	5.8	222.3	5	2	2	28.4
Bhyov8544_0606	acaD acyl-CoA dehydrogenase	40.0	6.1	356.6	7	4		21.8
Bhyov8544_0612	putative V-type ATP synthase subunit I	68.7	6.1	815.7	19	11	10	31.8
Bhyov8544_0622	hypothetical protein	43.1	5.1	318.3	7	5	5	24.7
Bhyov8544_0630	porG pyruvate oxidoreductase	38.0	9.4	324.7	6	4		20.0
Bhyov8544_0631	porA pyruvate ferredoxin oxidoreductase	82.9	6.2	283.7	7	4		13.8
Bhyov8544_0643	hypothetical protein	23.5	5.4	236.8	5	4	4	31.9
Bhyov8544_0701	hypothetical protein	41.9	5.3	107.9	5	3		14.0
Bhyov8544_0728	ftsY Signal recognition particle GTPase	35.4	9.1	849.8	13	12	9	42.1
Bhyov8544_0780	hypothetical protein	37.9	4.6	161.9	5	6	4	18.1

Bhyov8544_0782	extracellular solute-binding protein, family 5	59.7	4.6	1275.0	26	22	20	46.8
Bhyov8544_0798	hypothetical protein	33.4	5.0	468.4	9	6	5	34.2
Bhyov8544_0804	thrS threonyl-tRNA synthetase	73.9	5.8	314.3	7	5	5	16.5
Bhyov8544_0816	cheW purine-binding chemotaxis protein	17.9	4.3	123.3	2	3		23.9
Bhyov8544_0832	rsgA non-heme iron-containing ferritin	20.8	4.9	142.8	5	4		28.9
Bhyov8544_0837	pep peptidase	47.1	5.3	117.6	4	4	3	7.1
Bhyov8544_0875	hypothetical protein	35.6	4.8	1604.5	30	29	28	80.9
Bhyov8544_0876	hypothetical protein	16.9	0.0	97.0	3	2		11.5
Bhyov8544_0895	OmpA family protein	25.2	9.6	195.6	4	3		16.3
Bhyov8544_0896	hypothetical protein	26.2	9.3	273.0	6	5	4	32.2
Bhyov8544_0902	fusA elongation factor G	75.3	5.1	491.6	13	10	7	26.5
Bhyov8544_0903	tufA elongation factor Tu	44.4	5.8	765.2	14	14	11	47.3
Bhyov8544_0917	rplE 50S ribosomal protein L5	21.1	10.1	267.8	6	4	3	33.2
Bhyov8544_0918	rpsH 30S ribosomal protein S8	14.9	9.7	193.4	4	3	2	38.3
Bhyov8544_0953	hypothetical protein	14.8	4.8	157.0	4	4		42.5
Bhyov8544_0955	hypothetical protein	36.1	6.1	163.1	4	2		15.7
Bhyov8544_0996	glpP GlpP, Na ⁺ /H ⁺ -dicarboxylate symporter	40.2	9.2	124.3	3	2	2	13.0
Bhyov8544_1024	phoB alkaline phosphatase III	57.7	4.8	1471.2	24	18	17	58.3
Bhyov8544_1046	flaA flagellar filament outer layer protein FlaA	36.0	4.7	637.8	11	7	5	40.6
Bhyov8544_1057	Bhyov8544_1057 hypothetical protein	51.2	8.8	698.7	12	11	6	26.2
Bhyov8544_1080	vspF variable surface protein - VspF	3.6	4.1	168.9	5	5	4	71.9
Bhyov8544_1087	hypothetical protein	18.8	5.2	507.8	10	9	8	56.7
Bhyov8544_1090	hypothetical protein	37.2	4.9	113.3	4	3	3	11.3
Bhyov8544_1099	hypothetical protein	15.3	4.3	369.3	8	5	3	51.2
Bhyov8544_1121	hypothetical protein	38.6	4.4	150.8	4	4		19.3
Bhyov8544_1130	integral membrane transport protein	47.7	8.8	198.7	5	5	4	14.7
Bhyov8544_1150	rnfC electron transport complex protein 1	46.8	8.6	1631.4	30	29	25	60.5
Bhyov8544_1152	rnfG putative electron transport complex	19.9	4.5	850.9	16	12	9	58.6
Bhyov8544_1168	hypothetical protein	39.3	5.0	170.8	4	4	4	13.2
Bhyov8544_1201	hypothetical protein	22.0	9.1	294.1	5	4	3	25.9

Bhyov8544_1215	hypothetical protein	40.0	4.4	857.6	15	14	13	35.3
Bhyov8544_1218	hypothetical protein	19.7	5.7	76.8	2	2		5.6
Bhyov8544_1233	fabF 3-oxoacyl-ACP (acyl carrier protein) synthase II	44.5	6.1	87.9	3	2		11.5
Bhyov8544_1240	secG putative preprotein translocase subunit SecG	12.3	9.4	109.7	2	2		14.3
Bhyov8544_1247	AMP-activated protein kinase (AMPK) beta subunit glycogen binding domain (GBD)	29.4	4.8	138.9	4	3	2	26.1
Bhyov8544_1254	hslJ Heat shock protein	17.2	4.1	572.0	9	7	6	37.4
Bhyov8544_1297	extracellular solute-binding protein, family 5	60.8	5.1	613.1	13	10	9	27.9
Bhyov8544_1298	extracellular solute-binding protein, family 5	60.7	4.7	529.9	12	9	9	35.9
Bhyov8544_1303	hypothetical protein	16.5	9.6	127.9	3	3	2	28.5
Bhyov8544_1311	tpx peroxiredoxin family, thiol peroxidase	17.9	5.2	575.1	9	8	8	70.9
Bhyov8544_1329	thiol-disulfide interchange protein DsbD-like protein	31.6	5.4	487.0	11	8	5	45.8
Bhyov8544_1330	thiol-disulfide interchange protein DsbD-like protein	31.2	4.6	164.0	4	3	2	19.6
Bhyov8544_1347	hypothetical protein	44.7	7.5	498.1	10	6	3	36.1
Bhyov8544_1352	TPR domain-containing protein	27.2	9.3	197.2	4	3	2	21.1
Bhyov8544_1373	bitB periplasmic-iron-binding protein BitB	38.2	4.7	319.2	6	4	3	18.3
Bhyov8544_1377	extracellular solute-binding protein, family 3	30.1	5.3	956.4	16	14	14	58.7
Bhyov8544_1389	mgIB galactose/glucose-binding protein	37.8	4.4	837.7	15	11	7	52.9
Bhyov8544_1390	mgIB galactose/glucose-binding protein	38.2	4.7	2604.5	45	44	37	74.9
Bhyov8544_1411	ushA UshA, 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	68.3	4.7	748.9	13	6	6	27.0
Bhyov8544_1438	flavodoxin	18.8	8.8	61.4	2	2		12.2
Bhyov8544_1477	ahpC alkyl hydrogen peroxide reductase	20.9	5.3	158.7	4	4	2	31.0
Bhyov8544_1489	ABC transporter, transmembrane region	73.3	9.3	105.4	2	2	2	6.3
Bhyov8544_1500	groEL chaperonin GroEL	58.2	4.9	1009.0	19	15	12	44.6
Bhyov8544_1510	hypothetical protein	26.2	4.9	255.8	5	4	2	23.9
Bhyov8544_1522	putative Na ⁺ /phosphate symporter	61.9	6.3	280.9	6	4	3	16.4
Bhyov8544_1528	non-heme iron-containing ferritin	20.0	5.0	380.6	9	8	8	55.0
Bhyov8544_1587	faa1 Long-chain acyl-CoA synthetases (AMP-forming)	71.2	7.7	210.3	5	4	4	14.1
Bhyov8544_1600	biopolymer transport protein ExbB	22.5	5.0	133.1	4	4	2	23.3
Bhyov8544_1626	gldG ABC-type uncharacterized transport system	61.4	9.4	459.1	10	6	6	25.1
Bhyov8544_1635	tar8 putative methyl-accepting chemotaxis protein	74.0	4.4	288.5	8	5	3	13.4

Bhyov8544_1637	cheY chemotaxis response regulator CheY	13.5	7.6	257.1	6	4	2	68.0
Bhyov8544_1642	cheB response regulator receiver modulated CheB							
Bhyov8544_1645	methylesterase	41.0	9.0	237.5	4	3		21.2
Bhyov8544_1649	putative transcriptional regulator	40.5	9.5	125.8	4	3		12.7
Bhyov8544_1661	undefined product	47.0	9.6	103.9	2	2		5.1
Bhyov8544_1663	Imp1 TPR domain-containing protein	52.5	5.1	956.4	21	19	12	47.9
Bhyov8544_1670	rpsB 30S ribosomal protein S2	29.6	5.0	199.1	5	5	4	27.8
Bhyov8544_1696	oppA ABC-type oligopeptide transport system, periplasmic component	60.7	4.7	1173.9	24	22	19	40.6
Bhyov8544_1705	bmpB BmpB, outer membrane lipoprotein	29.7	4.3	688.9	12	10	10	36.9
Bhyov8544_1715	hypothetical protein	19.3	5.2	577.0	12	10	9	65.5
Bhyov8544_1732	Predicted membrane protein	23.2	10.6	124.0	2	2		11.6
Bhyov8544_1732	hypothetical protein	60.6	5.9	874.9	18	16	14	39.9
Bhyov8544_1738	hypothetical protein	27.5	5.0	180.3	3	2	2	13.5
Bhyov8544_1764	mreB rod shape-determining protein mreB	35.9	5.5	232.0	4	3	2	24.6
Bhyov8544_1779	hpaA membrane-bound proton-translocating pyrophosphatase	79.9	5.9	762.6	13	12	11	16.3
Bhyov8544_1799	outer membrane protein	100.3	6.7	889.7	16	15	13	22.6
Bhyov8544_1823	arp ankyrin repeat-containing protein	87.9	4.6	258.2	5	4		9.8
Bhyov8544_1866	rsxE SoxR-reducing system protein RsxE	23.4	10.0	139.4	2	2	2	5.0
Bhyov8544_1867	rnfA RnfA, Predicted DH:ubiquinone oxidoreductase, subunit RnfA	21.1	9.4	107.2	2	2	2	5.7
Bhyov8544_1868	ferredoxin	29.6	9.4	615.1	12	12	7	44.3
Bhyov8544_1900	hypothetical protein	65.2	4.2	175.4	4	4	2	7.2
Bhyov8544_1921	basic membrane lipoprotein	38.6	4.6	242.0	6	2		31.1
Bhyov8544_1922	basic membrane lipoprotein	36.9	4.6	985.4	19	16	14	53.5
Bhyov8544_1931	hypothetical protein	10.0	5.4	310.1	8	6	6	54.5
Bhyov8544_1933	hypothetical protein	41.2	5.0	424.9	9	7	2	25.0
Bhyov8544_1938	extracellular solute-binding protein, family 3	29.2	4.5	1873.4	26	24	24	52.5
Bhyov8544_1944	lea hypothetical protein	18.4	9.3	495.8	9	9	8	58.3
Bhyov8544_1966	spoIIAA SpoIIAA, Anti-anti-sigma regulatory factor	12.2	5.2	87.3	2	2	2	26.4

Bhyov8544_197								
3	vspE variable surface protein - VspE	40.5	6.5	422.9	7	5	4	27.7
Bhyov8544_1987	hypothetical protein	11.8	6.1	156.2	4	4	3	44.8
Bhyov8544_200								
2	hypothetical protein	15.5	9.5	152.3	2	2	2	18.6
Bhyov8544_2009	ompA outer membrane protein	22.6	9.4	236.8	6	6	6	41.4
Bhyov8544_2010	ompA OmpA family protein	23.9	4.6	436.7	8	8	6	59.6
Bhyov8544_2034	motB putative flagellar motor protein	28.9	7.5	334.4	6	5	4	33.8
Bhyov8544_2035	motA Flagellar Motor Protein	27.8	4.8	585.3	9	8	7	34.2
Bhyov8544_2044	extracellular solute-binding protein, family 5 2	61.8	4.9	2791.6	54	51	44	61.3
Bhyov8544_2064	hypothetical protein	28.1	4.6	497.3	10	7	4	46.1
Bhyov8544_2069	flaB3 periplasmic flagellar filament protein FlaB3	30.1	5.2	869.7	16	7	7	54.0
Bhyov8544_2071	Zn dependant metalloprotease	25.8	9.1	207.6	4	4	3	17.8
Bhyov8544_2075	hypothetical protein	60.5	8.4	386.2	8	8	6	20.4
Bhyov8544_2078	argH argininosuccinate lyase	45.6	5.6	369.5	9	4	4	27.3
Bhyov8544_2088	flaB Flagellar filament core protein flaB2	28.2	5.4	487.2	10	9	4	38.6
Bhyov8544_209								
7	hypothetical protein	143.4	6.7	691.5	15	11		12.7
Bhyov8544_2111	nifS NifS, Cysteine sulfinase/cysteine desulfurase-like enzyme	42.9	6.1	441.5	10	5	4	37.1
Bhyov8544_2129	hypothetical protein	26.8	5.0	1318.7	23	21	20	58.5
Bhyov8544_214								
7	arp ankyrin repeat-containing protein	61.1	4.3	1428.9	24	17	16	47.8
Bhyov8544_2151	hypothetical protein	15.1	4.5	181.1	3	3		27.6
Bhyov8544_215								
2	hypothetical protein	59.3	4.8	525.9	12	11	9	24.7
Bhyov8544_2171	periplasmic solute binding protein	32.3	4.6	356.9	7	5	4	30.3
Bhyov8544_217								
3	vspA variable surface protein A	38.1	4.5	606.9	10	5	3	37.9
Bhyov8544_2176	ABC transporter substrate binding protein	35.1	4.6	1055.3	16	15	11	55.9
Bhyov8544_2184	hypothetical protein	30.7	4.5	856.8	18	18	17	54.6
Bhyov8544_218								
5	hypothetical protein	58.0	4.9	810.8	13	13	11	23.1
Bhyov8544_218								
6	hypothetical protein	59.1	4.8	329.9	7	6	5	14.3

Bhyov8544_2190	secA preprotein translocase, SecA subunit	111.0	5.9	613.2	12	11	9	18.5
Bhyov8544_2193	bitC periplasmic-iron-binding protein BitC	8.4	7.1	132.7	3	2		56.8
Bhyov8544_2195	outer membrane protein	52.7	4.7	136.9	3	3		7.3
Bhyov8544_2196	mtrC membrane fusion protein	45.0	7.2	424.3	9	6	3	26.5
Bhyov8544_2199	hypothetical protein	23.3	6.4	546.0	8	7	6	38.3
Bhyov8544_2209	hypothetical protein	25.1	4.5	397.9	9	7	4	33.2
Bhyov8544_2217	oppA oligopeptide ABC transporter periplasmic subunit	61.3	5.9	702.8	14	12	7	27.6
Bhyov8544_2228	arp ankyrin repeat-containing protein	43.3	4.6	269.1	8	7	6	23.3
Bhyov8544_2264	undefined product	16.8	9.9	320.2	6	3	2	44.0
Bhyov8544_2284	Rieske (2Fe-2S) domain protein	38.0	9.7	280.4	11	10	8	8.0
Bhyov8544_2321	basic membrane lipoprotein	17.9	4.2	222.2	5	4	3	40.4
Bhyov8544_2345	extracellular solute-binding protein, family 5	60.3	4.7	831.2	16	13	19	37.8
Bhyov8544_2346	extracellular solute-binding protein, family 6	59.4	4.8	1414.5	24	22	18	47.0
Bhyov8544_2347	extracellular solute-binding protein, family 7	62.3	5.0	914.8	17	17	15	40.2
Bhyov8544_2372	glyceraldehyde-3-phosphate dehydrogenase	38.1	7.8	593.9	11	10	9	41.2
Bhyov8544_2373	pgk phosphoglycerate kinase	44.1	5.8	295.2	5	3	3	23.6
Bhyov8544_2385	hypothetical protein	53.9	5.1	368.5	8	4	4	24.8
Bhyov8544_2387	hypothetical protein	50.0	5.0	227.7	6	3	3	18.7
Bhyov8544_2403	arp ankyrin repeat-containing protein	40.7	4.3	744.0	16	12	9	40.7
Bhyov8544_2407	cutF lipoprotein involved with copper homeostasis and adhesion	14.7	4.0	260.1	4	4	3	26.0
Bhyov8544_2410	msrAB bifunctional methionine sulfoxide reductase	23.3	6.6	165.7	5	4	3	51.0
Bhyov8544_2417	hypothetical protein	28.2	5.5	268.8	5	5	4	22.8
Bhyov8544_2426	phosphoenolpyruvate carboxykinase (GTP)	66.7	5.8	175.0	6	5		9.5
Bhyov8544_2437	extracellular solute-binding protein, family 3	30.4	4.7	1148.6	19	19	18	53.8
Bhyov8544_2438	extracellular solute-binding protein, family 4	31.1	4.8	1065.4	16	15	14	60.7
Bhyov8544_2442	endoribonuclease	13.9	5.3	166.4	3	2	2	22.0
Bhyov8544_2464	ptsG fused N-acetyl glucosamine specific PTS enzyme: IIC, IIB , and IIA components	77.4	6.1	521.3	12	8	5	27.5
Bhyov8544_2465	tar methyl-accepting chemotaxis protein	63.7	4.7	132.2	3	2	2	6.3
Bhyov8544_2471	rbr rubrerythrin	20.6	5.9	517.2	8	7	7	44.4
Bhyov8544_2472	sodA superoxide dismutase	22.1	6.3	70.5	4	3		23.2

Bhyov8544_2483	undefined product	53.4	5.4	91.2	4	3	7.1	
Bhyov8544_2503	hypothetical protein	18.8	7.2	363.4	6	6	33.5	
Bhyov8544_2504	hypothetical protein	18.5	7.2	351.5	6	6	3	32.7
Bhyov8544_2511	iron-containing alcohol dehydrogenase	42.0	5.5	335.3	7	5	22.0	
Bhyov8544_2549	fliL putative flagellar basal body-associated protein	20.2	4.6	918.2	15	15	14	60.2
Bhyov8544_2559	secF preprotein translocase	34.3	8.8	329.5	4	4	4	20.8
Bhyov8544_2560	secD preprotein translocase subunit SecD	55.1	5.0	1111.3	18	17	13	33.6
Bhyov8544_2561	yajC putative preprotein translocase subunit	15.8	9.5	540.2	8	6	6	38.5
Bhyov8544_2610	oppA ABC-type oligopeptide transport system, periplasmic component	59.8	5.1	1778.3	33	29	24	56.5
Bhyov8544_2611	oppA ABC-type oligopeptide transport system, periplasmic component	61.2	5.4	149.5	3	3	8.4	
Bhyov8544_2645	feoB ferrous iron transport protein B	92.3	6.1	1652.0	30	28	25	32.9
Bhyov8544_2648	hypothetical protein	50.0	4.7	525.7	9	9	7	20.6
Bhyov8544_2659	hypothetical protein	14.9	4.5	320.5	6	4	3	22.9
Bhyov8544_2667	putative inversin protein alternative isoform	64.3	4.2	420.4	8	7	7	21.0
Bhyov8544_2672	bitB periplasmic-iron-binding protein BitB	35.6	4.8	392.7	8	8	6	40.7
Bhyov8544_2693	basic membrane lipoprotein	23.2	7.5	74.2	2	2	12.0	
Bhyov8544_2696	bitC periplasmic-iron-binding protein BitC	24.3	4.8	210.8	4	4	4	23.5
Bhyov8544_2713	vspF variable surface protein	14.1	9.6	1211.0	22	20	20	77.3
Bhyov8544_2731	bitB periplasmic-iron-binding protein BitB	10.0	9.0	235.3	5	5	3	75.3

Predicted proteins under iron-restricted conditions in *B. hyodysenteriae* P7455

Accession	Protein	MW [kDa]	pI	Scores	Peptides	SC		
Bhya7455_0028	methyl-accepting chemotaxis protein McpB	84.5	6.0	216.9	5	5	4	9.4
Bhya7455_0035	acetylglutamate kinase	31.1	5.1	86.2	5	4		14.9

Bhya7455_0038	biopolymer transport protein ExbB	22.5	5.0	163.3	4	2	23.8
Bhya7455_0055	ABC-type oligopeptide transport system, periplasmic component	60.7	4.7	1625.4	28	21	22 43.1
Bhya7455_0062	30S ribosomal protein S2	29.6	5.0	328.5	7	6	42.1
Bhya7455_0064	TPR domain-containing protein	52.5	5.1	621.5	13	12	3 39.1
Bhya7455_0115	putative dynein heavy chain	42.4	4.5	795.5	14	10	13 42.5
Bhya7455_0127	aminodeoxychorismate lyase	38.1	9.2	87.1	2	2	14.3
Bhya7455_0129	PSP1	37.6	5.0	104.0	5	3	2 7.0
Bhya7455_0137	hypothetical protein	20.9	4.8	229.6	6	5	4 38.1
Bhya7455_0174	phosphate ABC transporter, phosphate-binding protein	27.5	4.3	359.0	6	3	40.2
Bhya7455_0180	ABC-type uncharacterized transport system, periplasmic component	32.9	4.4	744.8	14	13	9 83.0
Bhya7455_0181	hypothetical protein	19.8	5.8	216.4	6	3	56.6
Bhya7455_0182	hypothetical protein	18.6	4.7	265.7	5	4	3 25.5
Bhya7455_0185	hypothetical protein	68.5	6.4	68.8	4	3	10.4
Bhya7455_0195	biotin/lipoyl attachment domain-containing protein	64.2	5.7	1859.1	36	28	24 64.7
Bhya7455_0250	ABC-type nitrate/sulfonate/bicarbonate transport system	37.2	4.5	834.1	14	13	9 46.1
Bhya7455_0260	hypothetical protein	19.7	5.5	124.5	2	2	14.0
Bhya7455_0271	hypothetical protein	24.5	9.2	196.8	3	3	2 16.7
Bhya7455_0294	hypothetical protein	57.0	4.1	100.9	2	2	5.0
Bhya7455_0295	hypothetical protein	38.2	4.1	320.1	5	4	3 19.6
Bhya7455_0299	pts system, N-acetylglucosamine-specific iibc component	50.6	8.7	599.5	12	9	8 28.5
Bhya7455_0311	hypothetical protein	73.8	5.1	175.5	4	2	2 8.5
Bhya7455_0336	putative positive regulator of sigma E, RseC/MucC	15.8	9.3	147.8	4	4	3 23.6
Bhya7455_0338	TPR domain-containing protein	53.6	6.0	916.2	18	15	9 39.2
Bhya7455_0340	hypothetical protein	40.0	5.6	179.7	4	4	17.1
Bhya7455_0341	hypothetical protein	38.1	4.8	905.6	22	16	11 44.1
B.yoa7455_0367	galactose/glucose-binding protein	38.2	4.7	4325.2	74	61	57 78.9
Bhya7455_0368	galactose/methyl galactoside transporter ATP-binding protein	56.1	9.1	326.2	7	4	3 16.0
Bhya7455_038	OppA, ABC-type oligopeptide transport system, periplasmic	60.8	4.9	912.6	17	15	13 41.8

2	component							
Bhya7455_0387	binding-protein-dependent transport system, membrane component	35.5	9.8	162.7	4	3	3	15.3
Bhya7455_0404	OppA, ABC-type oligopeptide transport system, periplasmic component	59.4	4.6	293.3	7	7	5	14.2
Bhya7455_0418	50S ribosomal protein L25/general stress protein Ctc	21.9	5.6	162.0	4	4		27.6
Bhya7455_0424	DH oxidase	50.1	6.1	803.9	14	14	7	41.6
Bhya7455_044								
2	hypothetical protein	41.7	4.6	199.6	3	3		12.9
Bhya7455_0446	periplasmic ATP/GTP-binding protein	32.7	4.3	294.9	5	4		26.5
Bhya7455_0448	hypothetical protein	20.3	4.4	227.0	5	4	3	30.6
Bhya7455_0459	hypothetical protein	30.5	6.0	252.3	5	5	3	26.4
Bhya7455_0469	hypothetical protein	24.2	4.7	368.4	6	5	5	43.9
Bhya7455_0473	ankyrin repeat-containing protein	15.2	5.4	227.9	5	4	2	52.6
Bhya7455_0483	metal dependent amidohydrolase	63.9	5.0	654.0	9	9	6	23.9
Bhya7455_0487	hypothetical protein	15.2	0.0	281.9	4	4	4	36.0
Bhya7455_0517	TRAP transporter solute receptor, TAXI family	34.4	4.5	810.3	16	15	12	54.4
Bhya7455_0523	carbon starvation protein CstA	58.6	9.7	369.4	7	5	3	16.7
Bhya7455_0531	variable surface protein VspH	47.0	4.9	1019.2	15	14	10	47.0
Bhya7455_0537	putative UshA protein; putative 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	57.2	4.8	910.8	17	10	12	48.6
Bhya7455_0538	spermidine/putrescine transport ATP-binding protein PotA	45.3	4.6	501.9	9	8	4	32.8
Bhya7455_054								
9	hypothetical protein	29.3	8.6	131.7	3	3	2	13.6
Bhya7455_0550	hypothetical protein	27.5	9.6	158.7	5	3	5	18.3
Bhya7455_0573	flagellar filament outer layer protein FlaA	24.7	4.6	880.9	16	10	6	65.7
Bhya7455_057								
4	putative flagellar filament outer layer protein FlaA	27.6	4.6	604.8	11	10	9	53.1
Bhya7455_0586	50S ribosomal protein L10	19.2	5.9	232.5	5	3	3	39.0
Bhya7455_0604	putative peptidoglycan-binding LysM:Peptidase M23B family	67.7	9.4	138.5	4	4		10.2
Bhya7455_0612	hypothetical protein	24.7	4.8	263.2	5	3	3	31.2
Bhya7455_0685	putative flavoprotein	45.8	5.5	164.6	4	4		18.3
Bhya7455_0691	outer membrane protein	100.3	6.7	548.0	10	8	5	15.1
Bhya7455_0711	membrane-bound proton-translocating pyrophosphatase	79.8	5.9	465.1	8	8	7	13.3

Bhya7455_0792	alkaline phosphatase III	57.7	4.8	1424.7	23	17	16	53.2
Bhya7455_0814	flagellar filament outer layer protein FlaA	36.0	4.7	796.8	13	13	8	45.9
Bhya7455_0825	hypothetical protein	51.2	8.8	681.9	11	8	6	28.8
Bhya7455_0856	UshA, 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	68.3	4.7	845.6	15	11	6	39.6
Bhya7455_0941	peptidase	47.1	5.3	109.5	3	3		7.1
Bhya7455_0946	non-heme iron-containing ferritin	20.9	4.9	221.9	5	6		28.9
Bhya7455_0980	hypothetical protein	33.4	5.0	132.4	3	3	3	17.1
Bhya7455_0997	alkyl hydrogen peroxide reductase	20.9	5.3	366.7	9	8	6	49.7
Bhya7455_1004	extracellular solute-binding protein, family 5	61.7	4.8	237.8	5	4	5	11.1
Bhya7455_1020	chaperonin GroEL	58.2	4.9	261.5	6	3		19.7
Bhya7455_1029	hypothetical protein	22.2	5.2	165.6	2	2	2	15.4
Bhya7455_1048	non-heme iron-containing ferritin	20.0	5.0	679.6	13	11	8	69.6
Bhya7455_1049	methyl-accepting chemotaxis protein McpB	68.3	4.7	174.6	3	2		7.0
Bhya7455_1071	3-hydroxybutyryl-CoA dehydratase	29.9	8.8	287.1	5	3		34.3
Bhya7455_1072	3-hydroxybutyryl-CoA dehydratase	27.7	5.4	673.9	10	11	4	48.1
B.hya7455_1073	acetyl-CoA acetyltransferase	40.9	8.8	468.0	9	7	5	30.1
Bhya7455_1098	acetyltransferase, GT family	20.9	5.2	133.3	3	2		5.7
Bhya7455_1102	glucose-1-phosphate adenylyltransferase	48.2	8.5	270.9	7	6		26.4
Bhya7455_1135	flagellar protein	28.8	5.5	792.8	14	12	8	51.5
Bhya7455_1150	peroxiredoxin family, thiol peroxidase	17.9	5.2	561.5	10	10	8	70.9
Bhya7455_1153	chemotaxis response regulator CheY	16.0	9.3	51.8	2	2		22.7
Bhya7455_1158	hypothetical protein	22.0	9.5	157.8	4	4	4	26.0
Bhya7455_1164	extracellular solute-binding protein, family 5	60.8	5.2	879.5	23	12	14	47.0
Bhya7455_1180	hypothetical protein	38.1	10.6	184.0	3	3	3	10.2
Bhya7455_1183	hypothetical protein	33.5	4.9	150.2	3	3		16.1
Bhya7455_1206	Heat shock protein	17.2	4.1	282.8	6	6	6	28.2
Bhya7455_1239	Signal recognition particle GTPase	35.4	9.1	808.8	12	11	7	39.0
Bhya7455_1252	NifS, Cysteine sulfinase/cysteine desulfurase-like	42.9	5.9	219.9	7	5	3	26.5

enzyme

Bhyoa7455_1272	hypothetical protein	26.8	4.9	1239.4	20	18	7	58.1
Bhyoa7455_1290	ankyrin repeat-containing protein	61.1	4.3	1421.0	21	18	13	51.3
Bhyoa7455_1308	integral membrane transport protein	46.1	5.4	189.4	5	3	3	17.7
Bhyoa7455_1322	hypothetical protein	44.1	5.9	80.4	3	3		7.4
Bhyoa7455_1328	electron transport complex protein	46.8	8.6	1249.5	23	19	11	51.3
Bhyoa7455_1330	putative electron transport complex	19.9	4.5	648.9	11	8	6	54.5
Bhyoa7455_1338	phosphoglycerate kinase	44.1	5.8	264.3	5	5	4	21.7
Bhyoa7455_1339	glyceraldehyde-3-phosphate dehydrogenase	38.1	7.8	780.0	14	12	11	52.4
Bhyoa7455_1359	galactose/glucose-binding protein	37.8	4.4	822.1	13	12	11	48.8
Bhyoa7455_1362	flavodoxin	15.3	4.1	355.1	5	3		74.1
Bhyoa7455_1371	extracellular solute-binding protein, family 3	30.1	5.3	759.1	14	12	11	52.4
Bhyoa7455_1375	periplasmic-iron-binding protein BitB	38.2	4.7	279.7	5	4		24.8
Bhyoa7455_1412	hypothetical protein	63.4	7.5	119.4	5	5		9.0
Bhyoa7455_1416	thiol-disulfide interchange protein DsbD-like protein	31.6	5.4	283.3	6	5		27.3
Bhyoa7455_1427	hypothetical protein	14.9	4.5	188.0	3	3	3	22.9
Bhyoa7455_1437	hypothetical protein	27.5	5.0	206.2	4	3	2	18.7
Bhyoa7455_1443	hypothetical protein	60.7	5.9	823.7	17	13	8	34.8
Bhyoa7455_1470	hypothetical protein	19.3	5.2	514.9	12	8	6	76.0
Bhyoa7455_1479	BmpB, outer membrane lipoprotein	29.7	4.3	616.0	9	9	6	33.9
Bhyoa7455_1502	acyl-CoA synthetase	62.2	6.6	957.8	16	12	12	39.9
Bhyoa7455_1522	Phosphopyruvate hydratase	47.0	4.8	684.6	11	10	2	47.6
Bhyoa7455_1544	acyl-CoA dehydrogenase	40.0	6.1	391.1	8	8	2	36.8
Bhyoa7455_1547	V-type ATP synthase subunit A	65.1	5.0	195.8	4	3		12.6
Bhyoa7455_1550	putative V-type ATP synthase subunit I	68.7	6.1	560.2	10	9	7	22.5
Bhyoa7455_1583	hypothetical protein	35.6	4.8	1846.4	32	25	24	84.2
Bhyoa7455_1611	elongation factor Tu	44.4	5.8	1032.6	17	17	16	50.2
Bhyoa7455_1625	50S ribosomal protein L5	21.1	10.1	138.2	4	2		21.4
Bhyoa7455_1663	methyl-accepting chemotaxis protein McpB	81.0	5.2	165.9	4	3		8.4

Bhya7455_1674	extracellular solute-binding protein, family 5	59.4	4.6	1440.3	26	18	18	52.8
Bhya7455_1675	hypothetical protein	11.8	6.1	111.9	4	3		44.8
Bhya7455_1684	TPR domain-containing protein	68.3	5.1	223.0	10	4		6.8
Bhya7455_1686	hypothetical protein	15.5	9.5	157.8	2	2		18.6
Bhya7455_1693	OmpA family protein	23.9	4.6	284.6	6	6		45.5
Bhya7455_1708	SoxR-reducing system protein RxE	23.4	0	113.8	2	2	2	5.0
Bhya7455_1709	RnfA, Predicted DH:ubiquinone oxidoreductase, subunit RnfA	21.1	9.4	115.3	2	2	2	5.7
Bhya7455_1735	adenylate kinase	20.7	5.1	100.9	3	3		23.2
Bhya7455_1770	hypothetical protein	59.1	4.8	212.9	6	5	3	14.1
Bhya7455_1771	hypothetical protein	58.0	4.9	383.4	7	6	5	17.1
Bhya7455_1772	hypothetical protein	30.7	4.5	524.0	11	10	8	42.1
Bhya7455_1780	ABC transporter substrate binding protein	35.1	4.6	995.4	15	13	12	51.1
Bhya7455_1783	variable surface protein A	38.1	4.5	521.2	10	9	7	40.8
Bhya7455_1785	periplasmic solute binding protein	32.3	4.6	347.0	6	5	3	33.8
Bhya7455_1808	hypothetical protein	27.9	8.7	145.6	4	3	2	19.4
Bhya7455_1821	pyruvate oxidoreductase	38.0	9.4	236.1	7	3		23.2
Bhya7455_1832	hypothetical protein	23.5	5.4	304.7	7	5	3	48.4
Bhya7455_1864	hypothetical protein	28.0	2	90.9	4	3		14.0
Bhya7455_1881	Phosphoenolpyruvate-protein phosphotransferase	64.3	4.8	381.8	8	3		18.1
Bhya7455_1884	Flagellar Motor Protein	27.8	4.8	301.1	6	5	3	31.6
Bhya7455_1893	extracellular solute-binding protein, family 5	61.8	4.9	2932.2	52	40	47	65.0
Bhya7455_1913	hypothetical protein	28.1	4.6	334.6	7	6	5	43.8
Bhya7455_1918	periplasmic flagellar filament protein FlaB3	30.1	5.2	2120.6	31	32	14	73.4
Bhya7455_1920	Zn dependant metalloprotease	25.8	9.1	219.4	4	4	3	20.3
Bhya7455_1922	methyl-accepting chemotaxis protein McpA	45.1	5.5	286.9	6	4		18.1
Bhya7455_1930	hypothetical protein	39.4	4.9	160.4	5	2	2	16.7
Bhya7455_1946	hypothetical protein	28.6	4.9	463.2	6	5	5	25.4
Bhya7455_1947	hypothetical protein	27.2	9.2	374.1	8	8	7	19.4

Bhya7455_1957	hypothetical protein	40.4	5.7	151.1	3	3	12.7
Bhya7455_1969	hypothetical protein	18.8	5.2	502.3	9	7	50.3
Bhya7455_1981	hypothetical protein	15.3	4.3	140.2	2	2	18.9
Bhya7455_2025	hypothetical protein	18.8	4.5	147.9	2	2	15.5
Bhya7455_2046	hypothetical protein	39.9	4.4	952.8	16	13	37.1
Bhya7455_2064	3-oxoacyl-ACP (acyl carrier protein) synthase II	44.5	6.1	158.7	3	3	13.9
Bhya7455_2088	methyl-accepting chemotaxis protein McpB	61.3	4.8	103.0	2	2	5.1
Bhya7455_2111	ankyrin repeat-containing protein	42.6	4.6	87.5	4	3	12.9
Bhya7455_2148	-	16.8	9.9	219.7	4	3	32.1
Bhya7455_2168	Rieske (2Fe-2S) domain protein	38.1	9.7	418.2	15	12	10.2
Bhya7455_2176	basic membrane lipoprotein	38.6	4.6	586.0	9	8	39.7
Bhya7455_2177	basic membrane lipoprotein	36.9	4.6	1012.5	17	14	55.6
Bhya7455_2185	hypothetical protein	10.0	5.4	281.3	6	5	47.7
Bhya7455_2192	extracellular solute-binding protein, family 3	29.2	4.5	2189.8	27	27	77.4
Bhya7455_2198	hypothetical protein	18.4	9.3	643.7	11	10	62.0
Bhya7455_2210	ankyrin repeat-containing protein	40.4	4.3	407.3	9	7	29.5
Bhya7455_2214	lipoprotein involved with copper homeostasis and adhesion	14.5	4.0	252.4	3	3	26.2
Bhya7455_2224	hypothetical protein	28.2	5.5	195.3	4	3	22.4
Bhya7455_2234	phosphoenolpyruvate carboxykinase (GTP)	66.6	5.8	371.4	9	6	18.6
Bhya7455_2239	oligopeptide ABC transporter periplasmic subunit	61.3	5.9	535.2	10	10	21.1
Bhya7455_2247	hypothetical protein	25.1	4.6	258.6	6	5	39.9
Bhya7455_2257	hypothetical protein	23.3	6.4	548.9	9	8	44.4
Bhya7455_2258	hypothetical protein	21.1	6.1	184.8	4	2	26.3
Bhya7455_2320	extracellular solute-binding protein, family 3	30.4	4.7	1025.1	17	13	50.9
Bhya7455_2321	extracellular solute-binding protein, family 3	31.1	4.8	480.8	8	8	42.2
Bhya7455_2325	endoribonuclease	13.9	5.3	197.2	3	2	43.3
Bhya7455_2344	hypothetical protein	60.5	7.8	567.6	14	8	32.2
Bhya7455_2347	argininosuccinate lyase	45.6	5.6	188.7	6	4	24.9
Bhya7455_2357	Flagellar filament core protein flaB2	28.2	5.4	863.2	11	8	48.3

Bhya7455_236								
1	variable surface protein - VspE	40.5	6.5	1010.1	14	13	9	41.8
Bhya7455_2378	methyl-accepting chemotaxis protein McpA	67.5	4.6	342.6	8	3	2	13.7
Bhya7455_2381	extracellular solute-binding protein, family 5	62.3	5.0	1027.7	17	13	11	47.3
Bhya7455_2382	extracellular solute-binding protein, family 5	59.4	4.8	1240.8	19	17	16	42.9
Bhya7455_2383	extracellular solute-binding protein, family 5	60.3	4.7	435.7	10	8	7	23.1
Bhya7455_2404	fused N-acetyl glucosamine specific PTS enzyme: IIC, IIB , and IIA components	77.4	6.1	909.8	19	15	12	28.1
Bhya7455_2411	rubrerythrin	20.6	5.9	305.7	6	3	3	32.0
Bhya7455_2412	superoxide dismutase	22.1	6.3	195.2	4	3		28.9
Bhya7455_241								
3	hypothetical protein	38.6	4.4	164.0	3	3	2	15.3
Bhya7455_2440	hypothetical protein	18.8	7.2	243.4	4	3		38.9
Bhya7455_2452	extracellular solute-binding protein, family 5	59.8	4.6	1276.6	25	21	18	53.2
Bhya7455_2465	putative preprotein translocase subunit	15.8	9.5	516.0	8	6	8	41.3
Bhya7455_2466	preprotein translocase subunit SecD	55.1	5.0	616.1	10	10	7	24.5
Bhya7455_2468	zinc finger SIM domain protein	68.3	5.1	99.1	5	2		9.6
Bhya7455_2477	putative flagellar basal body-associated protein	20.2	4.6	737.4	12	12	11	55.2
Bhya7455_2512	chemotaxis protein CheX	15.2	4.3	159.6	3	3	3	36.7
Bhya7455_2517	hypothetical protein	50.5	5.2	154.8	4	3		15.5
Bhya7455_2518	hypothetical protein	39.5	6.3	51.2	3	3		12.5
Bhya7455_2553	ABC-type oligopeptide transport system, periplasmic component	59.8	5.1	1509.3	28	26	21	57.8
Bhya7455_2554	ABC-type oligopeptide transport system, periplasmic component	61.2	5.5	385.8	9	9	7	26.7
Bhya7455_2574	ferrous iron transport protein B	92.3	6.0	689.5	14	13	11	21.0
Bhya7455_2610	hypothetical protein	22.0	9.1	318.0	7	5	4	44.6
Bhya7455_2618	basic membrane lipoprotein	16.9	4.2	254.5	6	4	3	52.6
Bhya7455_266								
5	basic membrane lipoprotein	23.2	7.5	253.5	5	3	3	31.8
Bhya7455_2670	periplasmic-iron-binding protein BitB	17.1	5.0	155.2	3	3	2	31.8
Bhya7455_2671	periplasmic-iron-binding protein BitA	14.8	5.1	103.2	2	2		31.6
Bhya7455_2679	methyl-accepting chemotaxis protein McpA	18.8	4.3	226.6	4	4	2	30.6
Bhya7455_2691	periplasmic-iron-binding protein BitC	12.8	7.1	204.4	4	4	2	30.4
Bhya7455_2694	variable surface protein - VspF	10.9	7.8	683.8	8	8	7	53.8

Bhyov7455_2723 periplasmic-iron-binding protein BitB

8.0 4.9 100.3 3 3 44.6

Proteins detected under conventional growth conditions (BHI supplemented with 5% FCS) in *B. hyodysenteriae* P8544

Accession	Protein	MW [kDa]	pI	Scores	Peptides	SC
Bhyov8544_0045	arp putative ankyrin repeat-containing protein	33.7	3.8	120.7	3 2	13.5
Bhyov8544_0054	PilZ domain containing protein	28.9	5.1	176.8	4 4 3	26.3
Bhyov8544_0060	hypothetical protein	37.5	5.9	112.4	3 2	13.4
Bhyov8544_0063	invasin; Opacity protein-like surface antigens	25.0	9.4	103.5	2 2	10.2
Bhyov8544_0067	ndhD hypothetical protein	18.9	4.8	297.0	5 4 4	51.7
Bhyov8544_0070	hypothetical protein	24.7	4.8	370.7	6 4 4	40.4
Bhyov8544_0129	hypothetical protein	38.4	8.8	178.8	5 3 3	20.1
Bhyov8544_0132	hypothetical protein	29.3	8.6	88.2	2 2 2	7.0
Bhyov8544_0134	hypothetical protein	43.0	4.6	170.6	3 3 2	11.2
Bhyov8544_0143	potD spermidine/putrescine transport ATP-binding protein PotA	45.3	4.6	825.7	14 1 10	47.0
Bhyov8544_0144	ushA putative UshA protein; putative 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	57.2	4.8	385.9	8 7 6	26.4
Bhyov8544_0158	cstA carbon starvation protein CstA	58.6	9.7	467.1	9 5 2	23.1
Bhyov8544_0164	TRAP transporter solute receptor, TAXI family	34.4	4.5	1308.0	21 5 13	58.5
Bhyov8544_0191	hypothetical protein	15.1	9.3	296.0	4 3 3	30.1
Bhyov8544_0192	ptsN phosphotransferase system mannitol/fructose-specific IIA domain (Ntr-type)	31.2	5.4	636.1	8 7 7	33.1
Bhyov8544_0195	metal dependent amidohydrolase	63.9	5.0	764.8	13 4 3	32.0
Bhyov8544_0205	arp ankyrin repeat-containing protein	15.2	5.4	365.8	6 4 3	47.4
Bhyov8544_0218	hypothetical protein	30.1	9.7	213.3	4 3	17.0
Bhyov8544_0219	hypothetical protein	30.5	6.3	346.5	6 6 4	33.5
Bhyov8544_0228	hypothetical protein	11.7	5.2	224.3	5 4	41.7
Bhyov8544_0229	hypothetical protein	11.7	7.5	118.1	3 2	41.7
Bhyov8544_0230	hypothetical protein	20.3	4.4	618.9	12 2 8	42.8

Bhyov8544_0232	periplasmic ATP/GTP-binding protein	32.7	4.3	401.3	8	6	4	41.2
	nox DH oxidase					1		
Bhyov8544_0254		50.1	6.1	1013.2	17	5	14	50.7
Bhyov8544_0260	rplY 50S ribosomal protein L25/general stress protein Ctc	21.9	5.6	252.4	5	5		37.2
Bhyov8544_0270	hypothetical protein	41.0	5.1	162.5	4	4	4	19.1
	binding-protein-dependent transport system, membrane component		10.					
Bhyov8544_0292		30.6	3	91.3	3	3		10.7
	binding-protein-dependent transport system, membrane component							
Bhyov8544_0293		35.5	9.8	276.1	5	4	3	17.1
	oppA OppA, ABC-type oligopeptide transport system, periplasmic component					1		
Bhyov8544_0298		60.8	4.9	924.8	17	5	11	41.9
	putative dynein heavy chain					1		
Bhyov8544_0305		42.3	4.5	1030.9	17	2	10	60.2
Bhyov8544_0315	aminodeoxychorismate lyase	38.1	9.2	453.1	9	9	4	38.8
Bhyov8544_0321	mcpB methyl-accepting chemotaxis protein McpB	75.8	4.9	317.6	5	3	3	10.6
Bhyov8544_0325	hypothetical protein	20.9	4.8	335.8	6	6	4	40.3
	solute binding protein-like protein					1		
Bhyov8544_0355		97.5	4.8	1009.2	16	3	9	27.0
Bhyov8544_0358	ptsS phosphate ABC transporter, phosphate-binding protein	27.5	4.3	519.1	8	8	7	44.5
	ABC-type uncharacterized transport system, periplasmic component					1		
Bhyov8544_0364		32.9	4.4	887.5	14	2	10	76.3
Bhyov8544_0366	hypothetical protein	18.5	4.7	343.4	6	6	5	41.2
	Na+-transporting methylmalonyl-CoA/oxaloacetate decarboxylase, beta subunit							
Bhyov8544_0378		48.2	9.9	157.2	3	3		9.4
	biotin/lipoyl attachment domain-containing protein					2		
Bhyov8544_0379		64.2	5.7	1497.1	27	5	21	62.8
Bhyov8544_0380	hypothetical protein	7.0	9.9	125.2	3	3	3	50.0
Bhyov8544_0417	hypothetical protein	51.3	4.8	1473.0	25	7	14	49.2
	tauA ABC-type nitrate/sulfonate/bicarbonate transport system					1		
Bhyov8544_0435		34.1	4.5	826.2	16	4	12	69.7
Bhyov8544_0445	hypothetical protein	19.7	5.5	144.4	3	2		17.4
Bhyov8544_0456	hypothetical protein	24.5	9.2	266.0	5	3	2	25.2
Bhyov8544_0479	hypothetical protein	56.9	4.1	169.0	3	3		6.5
Bhyov8544_0480	hypothetical protein	37.0	4.1	244.5	5	4	4	15.2
Bhyov8544_0484	nagE pts system, N-acetylglucosamine-specific iibc component	50.6	8.7	486.3	9	6	5	22.6

Bhyov8544_0493	hypothetical protein	25.7	5.4	170.0	3	2		25.8
Bhyov8544_0496	hypothetical protein	73.8	5.2	477.0	11	5	3	24.3
Bhyov8544_0521	putative positive regulator of sigma E, RseC/MucC TPR domain-containing protein	15.8	9.3	291.6	8	6	4	46.4
Bhyov8544_0523		53.6	6.0	862.6	18	2	10	42.4
Bhyov8544_0526	hypothetical protein	38.1	4.8	983.2	21	7	10	48.9
Bhyov8544_0537	dnaK molecular chaperone DnaK	67.7	4.8	317.7	6	3		15.0
Bhyov8544_0562	fadD acyl-CoA synthetase	62.2	6.6	503.7	10	8	7	21.1
Bhyov8544_0569	carboxyl-terminal protease eno Phosphopyruvate hydratase	55.0	5.3	246.1	4	2		11.5
Bhyov8544_0584		47.0	4.8	793.4	16	3	12	50.6
Bhyov8544_0598	amino acid-binding protein	28.6	4.9	172.0	4	2	2	13.0
Bhyov8544_0605	etfB electron transfer flavoprotein beta subunit	28.6	5.8	292.0	6	4	3	41.0
Bhyov8544_0606	acaD acyl-CoA dehydrogenase	40.0	6.1	272.6	5	5	4	21.3
Bhyov8544_0609	atpA V-type ATP synthase subunit A	65.1	5.0	198.1	4	3		11.4
Bhyov8544_0610	atpB V-type ATP synthase subunit B	48.4	4.9	184.1	4	3		12.5
Bhyov8544_0612	putative V-type ATP synthase subunit I	68.7	6.1	598.4	12	7		20.9
Bhyov8544_0622	hypothetical protein	43.1	5.1	393.3	7	5	3	26.6
Bhyov8544_0628	hypothetical protein	39.6	5.6	269.6	5	3		22.7
Bhyov8544_0630	porG pyruvate oxireductase porA pyruvate ferredoxin oxireductase	38.0	9.4	488.7	7	5	2	33.9
Bhyov8544_0631		82.9	6.2	898.7	18	8	14	31.0
Bhyov8544_0643	hypothetical protein ftsY Signal recognition particle GTPase	23.5	5.4	370.1	6	5	2	40.8
Bhyov8544_0728		35.4	9.1	929.9	16	4	7	49.2
Bhyov8544_0779	TPR domain-containing protein	26.2	5.5	150.4	3	3	3	16.5
Bhyov8544_0780	hypothetical protein extracellular solute-binding protein, family 5	37.9	4.6	393.4	8	3		39.9
Bhyov8544_0782		59.7	4.6	1295.2	23	0	19	48.1
Bhyov8544_0798	hypothetical protein	33.4	5.0	210.6	4	2		22.5
Bhyov8544_0804	thrS threonyl-tRNA synthetase	73.9	5.8	363.2	6	3	3	16.3
Bhyov8544_0816	cheW purine-binding chemotaxis protein	17.9	4.3	210.1	4	3	2	32.7
Bhyov8544_0837	pep peptidase	47.1	5.3	110.0	4	3	3	7.1

Bhyov8544_0866	apbE putative thiamine biosynthesis lipoprotein apbE	37.2	4.9	147.5	3	2	13.0
	hypothetical protein					1	
Bhyov8544_0875		35.6	4.8	1048.7	19	9	14 78.1
Bhyov8544_0876	hypothetical protein	16.9	0.0	63.5	2	2	7.7
Bhyov8544_0895	OmpA family protein	25.2	9.6	265.8	5	5	3 22.6
Bhyov8544_0896	hypothetical protein	26.2	9.3	378.2	7	5	4 36.9
Bhyov8544_0897	hypothetical protein	33.6	9.0	191.4	4	3	15.9
Bhyov8544_0898	hypothetical protein	17.5	4.4	228.9	5	4	3 47.3
	fusA elongation factor G 1018293:1020329 forward MW:75343					1	
Bhyov8544_0902		75.3	5.1	985.6	18	2	10 36.3
	tufA elongation factor Tu					1	
Bhyov8544_0903		44.4	5.8	1190.4	24	2	12 65.7
	rplE 50S ribosomal protein L5		10.				
Bhyov8544_0917		21.1	1	359.1	9	3	42.8
Bhyov8544_0918	rpsH 30S ribosomal protein S8	14.9	9.7	293.0	6	3	53.4
	secY preprotein translocase subunit SecY		10.				
Bhyov8544_0924		49.2	2	177.9	6	4	16.4
Bhyov8544_0952	hypothetical protein	18.8	4.5	160.6	2	2	2 15.5
Bhyov8544_0955	hypothetical protein	36.1	6.1	225.5	5	3	18.7
Bhyov8544_0996	gltP GltP, Na ⁺ /H ⁺ -dicarboxylate symporter	40.2	9.2	214.2	4	3	3 13.2
	hypothetical protein					1	
Bhyov8544_1003		58.9	8.9	347.1	10	0	22.0
	phoB alkaline phosphatase III					1	
Bhyov8544_1024		57.7	4.8	679.4	13	3	11 37.7
Bhyov8544_1048	tpiA triosephosphate isomerase	27.6	5.7	230.4	3	3	17.8
	hypothetical protein					1	
Bhyov8544_1057		51.2	8.8	565.2	11	1	7 34.5
Bhyov8544_1067	glutamate synthase (DPH)	51.0	5.6	167.5	4	2	12.2
Bhyov8544_1080	vspF variable surface protein - VspF	3.6	4.1	163.1	5	4	3 71.9
Bhyov8544_1087	hypothetical protein	18.8	5.2	423.9	8	6	6 46.8
Bhyov8544_1121	hypothetical protein	38.6	4.4	137.4	3	2	15.8
Bhyov8544_1130	integral membrane transport protein	47.7	8.8	196.6	4	4	3 17.1
Bhyov8544_1139	hypothetical protein	66.2	8.5	154.0	2		9.4
Bhyov8544_1144	hypothetical protein	44.1	5.9	127.5	4	3	10.8

Bhyov8544_1150	rnfC electron transport complex protein	46.8	8.6	1266.2	20	6	15	49.7
Bhyov8544_1152	rnfG putative electron transport complex	19.9	4.5	729.1	11	9	8	58.6
Bhyov8544_1168	Bhyov8544_1168 hypothetical protein	39.3	5.0	165.7	4	4	4	14.7
Bhyov8544_1215	Bhyov8544_1215 hypothetical protein	40.0	4.4	769.4	12	2	10	35.3
Bhyov8544_1233	fabF 3-oxoacyl-ACP (acyl carrier protein) synthase II	44.5	6.1	167.7	4	3	3	17.3
Bhyov8544_1247	AMP-activated protein kinase (AMPK) beta subunit glycogen binding domain (GBD)	29.4	4.8	132.1	3	3	2	20.9
Bhyov8544_1254	hslJ Heat shock protein	17.2	4.1	546.8	8	8	6	37.4
Bhyov8544_1278	gatA glutamyl-tRNA(Gln) amidotransferase, A subunit	52.7	5.8	156.9	3	3	2	11.4
Bhyov8544_1297	extracellular solute-binding protein, family 5	60.8	5.1	376.5	8	6	4	19.8
Bhyov8544_1298	extracellular solute-binding protein, family 5	60.7	4.7	493.8	11	0	9	28.9
Bhyov8544_1311	tpx peroxiredoxin family, thiol peroxidase	17.9	5.2	575.5	10	8	8	70.9
Bhyov8544_1372	bitB periplasmic-iron-binding protein BitB	39.0	4.6	254.0	5	3	2	29.1
Bhyov8544_1373	bitB periplasmic-iron-binding protein BitB	38.2	4.7	389.5	8	6	4	38.1
Bhyov8544_1377	extracellular solute-binding protein, family 3	30.1	5.3	637.5	12	0	9	50.6
Bhyov8544_1387	aroB 3-dehydroquinate synthetase	39.9	6.3	58.3	3	3		6.4
Bhyov8544_1389	mglB galactose/glucose-binding protein	37.8	4.4	680.9	12	1	9	57.6
Bhyov8544_1390	mglB galactose/glucose-binding protein	38.2	4.7	2792.4	46	4	36	77.4
Bhyov8544_1391	mglA galactose/methyl galactoside transporter ATP-binding protein	56.1	9.1	1121.0	21	3		44.7
Bhyov8544_1411	ushA UshA, 5'-nucleotidase/2',3'-cyclic phosphodiesterase-like esterase	68.3	4.7	557.3	12	2	10	29.2
Bhyov8544_1447	anti-sigma factor antagonist	12.1	4.6	167.8	3	2	2	35.5
Bhyov8544_1473	fliF flagellar MS-ring protein	64.6	6.0	111.4	3	2		10.2
Bhyov8544_1485	ackA acetate kinase	42.8	6.7	419.6	8	4		25.6
Bhyov8544_1489	ABC transporter, transmembrane region	73.3	9.3	204.5	6	3		14.5
Bhyov8544_1500	groEL chaperonin GroEL	58.2	4.9	1252.8	19	1	12	53.6
Bhyov8544_1522	putative Na ⁺ /phosphate symporter	61.9	6.3	554.8	10	8	5	25.5

Bhyov8544_1529	mcpB methyl-accepting chemotaxis protein McpB	68.3	4.7	146.1	4	3	9.3
Bhyov8544_1600	biopolymer transport protein ExbB	22.5	5.0	136.8	5	4	3 24.3
Bhyov8544_1609	modA ModA, ABC-type molybdate transport system, periplasmic component	28.5	4.6	202.2	3	2	17.1
Bhyov8544_1626	gldG ABC-type uncharacterized transport system	61.4	9.4	626.3	11	5	29.9
Bhyov8544_1635	tar8 putative methyl-accepting chemotaxis protein	74.0	4.4	681.0	15	7	5 30.5
Bhyov8544_1637	cheY chemotaxis response regulator CheY	13.5	7.6	317.1	5	4	3 45.9
Bhyov8544_1642	cheB response regulator receiver modulated CheB methylesterase	41.0	9.0	451.9	7	6	32.3
Bhyov8544_1649	Bhyov8544_1649 undefined product	47.0	9.6	136.7	2		5.1
Bhyov8544_1661	Imp1 TPR domain-containing protein	52.5	5.1	1027.3	21	0	13 55.2
Bhyov8544_1662	tsf elongation factor Ts	31.2	5.2	234.3	6	5	2 28.2
Bhyov8544_1663	rpsB 30S ribosomal protein S2	29.6	5.0	421.2	10	7	5 44.7
Bhyov8544_1670	oppA ABC-type oligopeptide transport system, periplasmic component	60.7	4.7	1095.5	20	0	18 48.1
Bhyov8544_1696	bmpB BmpB, outer membrane lipoprotein	29.7	4.3	691.6	11	1	10 36.9
Bhyov8544_1705	hypothetical protein	19.3	5.2	380.7	7	6	4 55.6
Bhyov8544_1732	hypothetical protein	60.6	5.9	1135.5	22	2	18 47.1
Bhyov8544_1738	hypothetical protein	27.5	5.0	337.5	7	3	3 38.1
Bhyov8544_1748	iars isoleucyl-tRNA synthetase	106.0	5.8	172.3	5	4	4 7.6
Bhyov8544_1760	cheY chemotaxis protein CheY	15.6	9.2	223.2	4	3	3 32.4
Bhyov8544_1764	mreB rod shape-determining protein mreB 1988191:1989195 forward MW:35924	35.9	5.5	228.4	4	3	3 25.1
Bhyov8544_1779	hppA membrane-bound proton-translocating pyrophosphatase	79.9	5.9	782.2	13	8	8 23.2
Bhyov8544_1799	outer membrane protein	100.3	6.7	1316.7	23	5	12 34.4
Bhyov8544_1837	acetyltransferase, GT family	20.9	5.2	111.5	4	3	5.7
Bhyov8544_1851	hypothetical protein	27.3	4.8	101.6	3	3	14.0
Bhyov8544_1861	acetyl-CoA acetyltransferase	40.9	8.8	448.2	8	6	30.1
Bhyov8544_1862	crt 3-hydroxybutyryl-CoA dehydratase	27.7	5.4	292.9	6	5	4 35.7
Bhyov8544_1863	crt 3-hydroxybutyryl-CoA dehydratase	29.9	8.8	391.8	7	5	4 36.4

Bhyov8544_1866	rsxE SoxR-reducing system protein RsxE	23.4	10.0	139.2	2	2	5.0	
Bhyov8544_1867	rnfA RnfA, Predicted DH:ubiquinone oxidoreductase, subunit RnfA	21.1	9.4	105.8	2	2	5.7	
Bhyov8544_1868	ferredoxin	29.6	9.4	557.2	14	0	3	60.4
Bhyov8544_1894	aspC aspartate aminotransferase	45.8	5.8	307.7	7	2	31.9	
Bhyov8544_1921	basic membrane lipoprotein 2168784:2169836 forward MW:38616	38.6	4.6	315.2	8	6	3	37.7
Bhyov8544_1922	basic membrane lipoprotein	36.9	4.6	853.6	14	3	11	52.6
Bhyov8544_1931	hypothetical protein	10.0	5.4	270.9	7	6	4	48.9
Bhyov8544_1937	amino acid transport system permease protein	26.3	9.4	220.8	4	4	18.1	
Bhyov8544_1938	extracellular solute-binding protein, family 3	29.2	4.5	1686.6	22	1	19	52.9
Bhyov8544_1944	lea hypothetical protein	18.4	9.3	523.3	8	8	7	51.5
Bhyov8544_1966	spolIAA SpolIAA, Anti-anti-sigma regulatory factor	12.2	5.2	145.4	3	2	26.4	
Bhyov8544_1973	vspE variable surface protein - VspE	40.5	6.5	533.3	11	6	4	32.9
Bhyov8544_1986	extracellular solute-binding protein, family 5	40.0	4.7	97.5	2	2	10.8	
Bhyov8544_1987	hypothetical protein	11.8	6.1	262.3	6	5	3	53.3
Bhyov8544_1995	aspS aspartyl-tRNA synthetase	66.9	5.2	187.3	4	3	13.0	
Bhyov8544_2002	hypothetical protein	15.5	9.5	158.4	2	2	18.6	
Bhyov8544_2009	ompA outer membrane protein	22.6	9.4	147.1	5	4	39.4	
Bhyov8544_2010	ompA OmpA family protein	23.9	4.6	381.1	7	6	5	51.2
Bhyov8544_2034	motB putative flagellar motor protein	28.9	7.5	174.6	4	3	3	25.9
Bhyov8544_2035	motA Flagellar Motor Protein	27.8	4.8	682.3	10	8	8	43.7
Bhyov8544_2044	extracellular solute-binding protein, family 5	61.8	4.9	2338.2	42	8	37	63.9
Bhyov8544_2064	hypothetical protein	28.1	4.6	454.7	7	7	3	46.1
Bhyov8544_2071	Zn dependant metalloprotease	25.8	9.1	246.7	5	4	2	23.3
Bhyov8544_2075	hypothetical protein	60.5	8.4	464.1	8	5	5	18.9
Bhyov8544_2078	argH argininosuccinate lyase	45.6	5.6	333.0	8	6	3	31.8
Bhyov8544_2103	prolipoprotein diacylglycerol transferase	35.8	9.5	129.6	2	2	10.6	
Bhyov8544_2129	hypothetical protein	26.8	5.0	865.9	16	1	15	58.1

						5		
	arp ankyrin repeat-containing protein					1		
Bhyov8544_2147		61.1	4.3	767.1	13	1	10	38.6
Bhyov8544_2152	hypothetical protein	59.3	4.8	313.1	7	6		13.3
Bhyov8544_2169	hypothetical protein	15.5	7.1	138.0	2	2		17.6
Bhyov8544_2171	periplasmic solute binding protein	32.3	4.6	339.6	6	4	3	27.2
Bhyov8544_2173	vspA variable surface protein A	38.1	4.5	648.1	9	9	8	37.9
	ABC transporter substrate binding protein 2					1		
Bhyov8544_2176		35.1	4.6	1003.1	16	5	9	54.7
	hypothetical protein					1		
Bhyov8544_2184		30.7	4.5	1172.0	20	6	10	54.6
Bhyov8544_2185	hypothetical protein	58.0	4.9	682.0	14	8	6	31.3
Bhyov8544_2186	hypothetical protein	59.1	4.8	487.2	9	7	5	21.6
Bhyov8544_2190	secA preprotein translocase, SecA subunit	111.0	5.9	739.6	13	9		20.4
Bhyov8544_2193	bitC periplasmic-iron-binding protein BitC	8.4	7.1	222.4	4	3	3	56.8
Bhyov8544_2199	hypothetical protein	23.3	6.4	484.5	7	4	4	38.3
Bhyov8544_2209	hypothetical protein	25.1	4.5	310.1	6	3		33.6
Bhyov8544_2217	oppA oligopeptide ABC transporter periplasmic subunit	61.3	5.9	593.1	12	7	6	26.1
Bhyov8544_2228	arp ankyrin repeat-containing protein	43.3	4.6	217.1	6	2		18.3
Bhyov8544_2234	pgi glucose-6-phosphate isomerase	49.5	6.4	162.8	4	3		14.9
Bhyov8544_2264	undefined product	16.8	9.9	143.9	2	2		22.0
Bhyov8544_2279	rubrerythrin fusion protein	20.4	5.4	317.7	6	6	5	51.6
Bhyov8544_2321	basic membrane lipoprotein	17.9	4.2	246.7	6	4	3	54.7
Bhyov8544_2341	hypothetical protein	11.0	9.1	122.0	3	2		19.1
Bhyov8544_2345	extracellular solute-binding protein, family 5	60.3	4.7	590.0	12	9	8	31.6
	extracellular solute-binding protein, family 5					1		
Bhyov8544_2346		59.4	4.8	1336.0	19	8	17	47.0
	extracellular solute-binding protein, family 5					1		
Bhyov8544_2347		62.3	5.0	935.6	16	3	10	43.1
Bhyov8544_2348	hypothetical protein	47.8	4.3	170.0	3	3		11.4
	glyceraldehyde-3-phosphate dehydrogenase					1		
Bhyov8544_2372		38.1	7.8	469.5	11	0	9	35.2
	pgk phosphoglycerate kinase					1		
Bhyov8544_2373		44.1	5.8	608.4	13	2	8	46.7

Bhyov8544_2387	hypothetical protein	50.0	5.0	338.0	8	3	2	24.6
Bhyov8544_2403	arp ankyrin repeat-containing protein	40.7	4.3	673.2	13	9	8	42.0
Bhyov8544_2407	cutF lipoprotein involved with copper homeostasis and adhesion	14.7	4.0	178.1	2	2	2	26.0
Bhyov8544_2417	hypothetical protein	28.2	5.5	287.6	5	5	5	25.2
Bhyov8544_2426	phosphoenolpyruvate carboxykinase (GTP)	66.7	5.8	333.3	7	7	5	21.6
Bhyov8544_2437	extracellular solute-binding protein, family 3	30.4	4.7	1228.5	18	6	14	47.3
Bhyov8544_2438	extracellular solute-binding protein, family 3	31.1	4.8	444.5	8	7	7	42.5
Bhyov8544_2442	endoribonuclease	13.9	5.3	384.8	5	5	3	51.2
Bhyov8544_2464	2750623:2752782 forward MW:77416	77.4	6.1	612.2	12	9	9	22.9
Bhyov8544_2468	hypothetical protein	55.9	9.2	314.5	5	5	3	15.3
Bhyov8544_2471	rbr rubrerythrin	20.6	5.9	572.3	11	9	7	64.0
Bhyov8544_2472	sodA superoxide dismutase	22.1	6.3	296.4	6	4	4	35.6
Bhyov8544_2483	undefined product	53.4	5.4	75.4	3	3		10.6
Bhyov8544_2485	MoxR-like ATPase	38.5	5.1	369.0	8	7		33.4
Bhyov8544_2501	hypothetical protein	77.0	4.9	620.0	10	5		19.1
Bhyov8544_2511	iron-containing alcohol dehydrogenase	42.0	5.5	541.4	10	8	5	36.8
Bhyov8544_2549	fliL putative flagellar basal body-associated protein	20.2	4.6	719.9	13	2	11	60.2
Bhyov8544_2559	secF preprotein translocase	34.3	8.8	327.0	5	4	4	24.4
Bhyov8544_2560	secD preprotein translocase subunit SecD	55.1	5.0	696.2	12	2	11	27.0
Bhyov8544_2561	yajC putative preprotein translocase subunit	15.8	9.5	593.2	9	9	7	39.2
Bhyov8544_2610	oppA ABC-type oligopeptide transport system, periplasmic component	59.8	5.1	1145.7	22	9	18	46.9
Bhyov8544_2636	hypothetical protein	85.6	5.5	272.8	6	4		13.6
Bhyov8544_2648	hypothetical protein	50.0	4.7	273.2	6	5	3	15.8
Bhyov8544_2659	hypothetical protein	14.9	4.5	287.0	4	3	3	22.9
Bhyov8544_2672	bitB periplasmic-iron-binding protein BitB	35.6	4.8	541.7	10	6	5	43.2
Bhyov8544_2696	bitC periplasmic-iron-binding protein BitC	24.3	4.8	289.7	6	4	3	42.9
Bhyov8544_2713	vspF variable surface protein - VspF	14.1	9.6	1168.2	20	8	18	77.3
Bhyov8544_2731	bitB periplasmic-iron-binding protein BitB	10.0	9.0	298.6	6	5	3	69.9

Lipoproteins predicted by SpLiP

Proteins with beta-barrel predicted by BOMP